

PS-X55

US Model
AEP Model
UK Model
Canadian Model
E Model



STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL

Power Requirements:	120 V ac, 60 Hz (US, Canadian model) 220 V ac, 50/60 Hz (AEP model) 240 V ac, 50/60 Hz (UK model) 110 – 120 V or 220 – 240 V ac adjustable, 50/60 Hz (E model)
Power Consumption:	12 W
Dimensions:	Approx. 430 (w) x 135 (h) x 375 (d) mm 17 (w) x 5 3/8 (h) x 14 7/8 (d) inches including projecting parts and controls
Weight:	Approx. 8 kg, 17 lb 10 oz (net) Approx. 9.4 kg, 20 lb 12 oz (in shipping carton)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TURNTABLE

Platter:	31 cm (12 1/4 inches), aluminum-alloy diecast
Motor:	Linear BSL (brushless and slotless) motor
Drive System:	Direct drive
Control System:	Crystal lock control, magnedisc servo control system
Speed:	33 1/3 rpm, 45 rpm
Starting Characteristics:	Comes to nominal speed within a half revolution (33 1/3 rpm)
Wow and Flutter:	0.02 % (WRMS) *0.025 % (WRMS) ± 0.04 % (DIN)
S/N Ratio:	78 dB (DIN-B)
Load Characteristics:	0 % up to 100 g stylus force (at lead-in groove of a record)
Speed Deviation:	Within ± 0.003 %
Automatic System:	Lead-in, return, reject, repeat, record size selection

— Continued on page 2 —

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record.
Measured by obtaining signal from magnetic pick-up head.

SONY®
SERVICE MANUAL

TONEARM

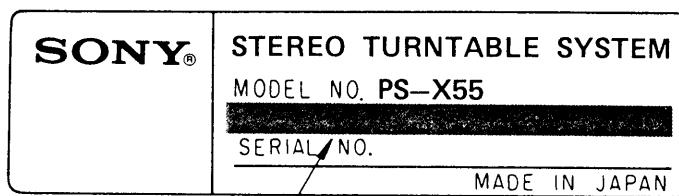
Type: Statically balanced
Pivot-to-stylus Length: 216.5 mm (8 1/2 inches)
Overall Arm Length: 300 mm (11 7/8 inches)
Overhang: 16.5 mm (2 1/2 inches)
Tracking Error: +3° to -1°
Stylus Force Adjustment Range: 0 - 2.5 g
Cartridge Shell Weight: 5 g
Cartridge Weight Range: 7.5 - 11.5 g
(including supplied headshell) 11 - 15 g (with extra weight)

CARTRIDGE

Type: Moving-magnet
Frequency Response: 10 - 30,000 Hz
Channel Separation: 25 dB at 1 kHz
Output Voltage: 3 mV at 1 kHz, 5 cm/sec, 45°
Load Impedance: 50 kΩ - 100 kΩ
Tracking Force: 1.0 - 2.0 g (1.5 g recommended)
Stylus: Sony ND-200E
Elliptical (0.3 x 0.8 mil), nude diamond
Weight: 3.5 g

MODEL IDENTIFICATION

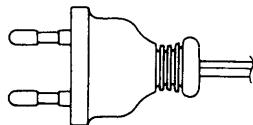
— Specification Label —



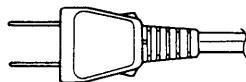
US, Canadian model : AC 120V 60Hz 12W
AEP model : AC 220V ~50/60Hz 12W
UK model : AC 240V ~50/60Hz 12W
E model : AC 110-120V, 220-240V ~50/60Hz 12W

— Power Cord —

E model: euro-plug 1-551-530-00



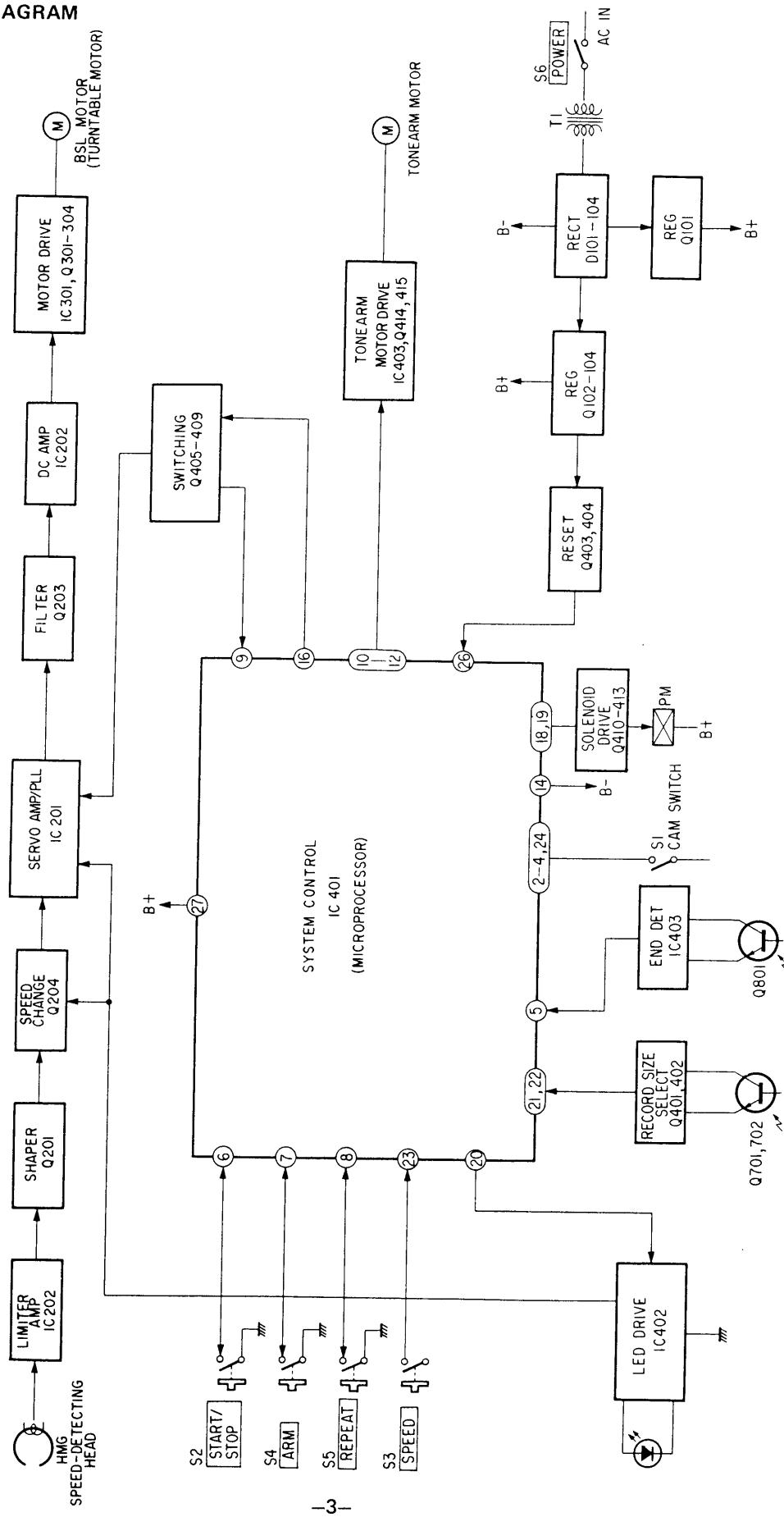
E model: parallel-blade plug 1-551-473-31



SECTION 1

OUTLINE

1-1. BLOCK DIAGRAM

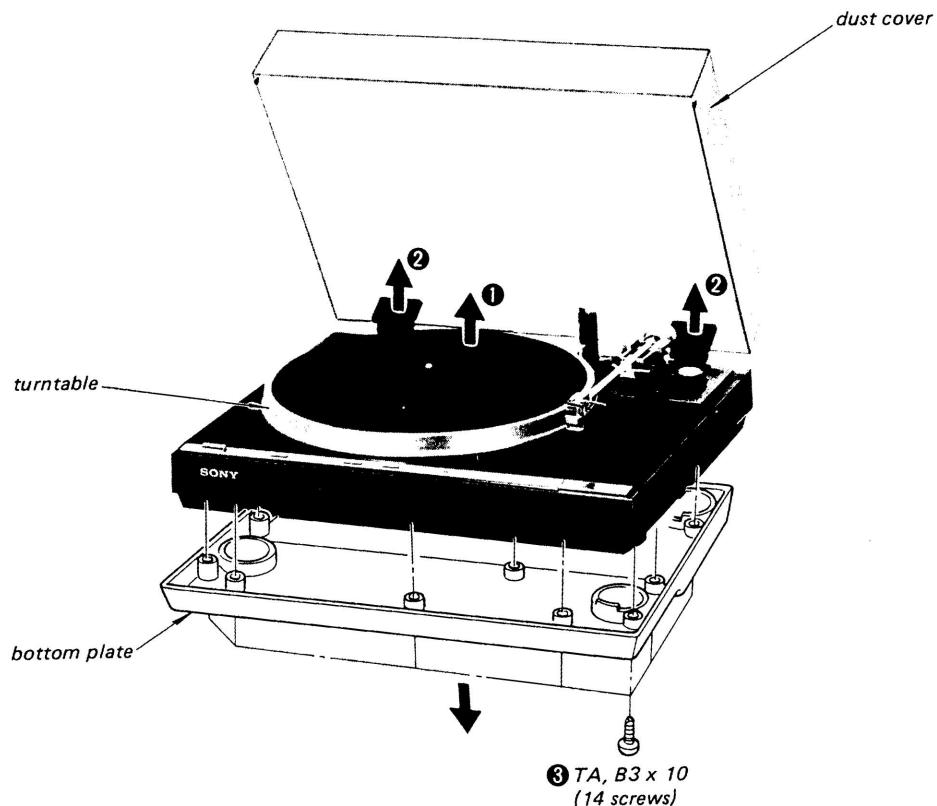


SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

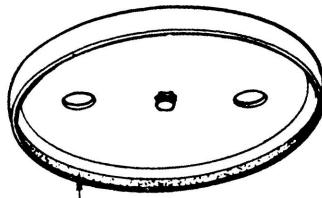
TURNTABLE/DUST COVER/BOTTOM PLATE REMOVAL

- ① : TURNTABLE
- ② : DUST COVER
- ③ : BOTTOM PLATE



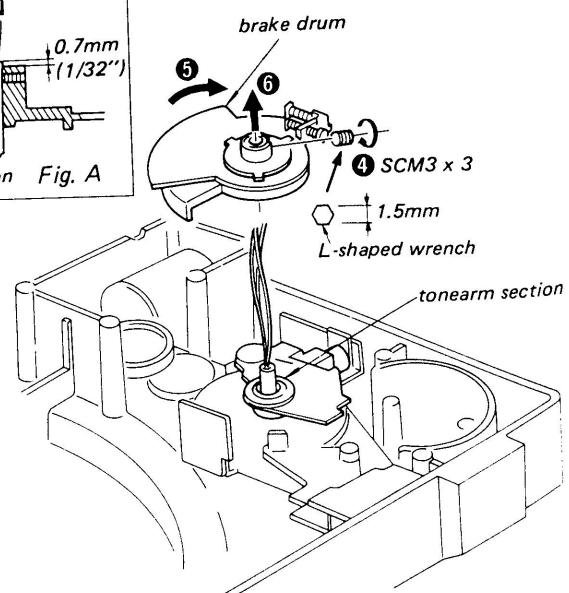
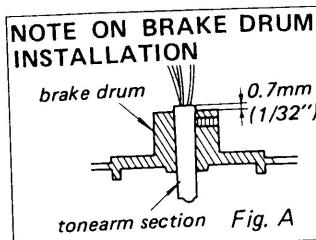
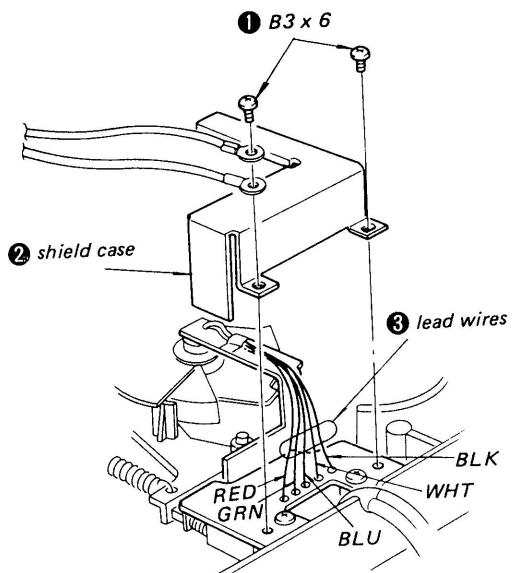
SERVICING NOTE

Bottom view of turntable

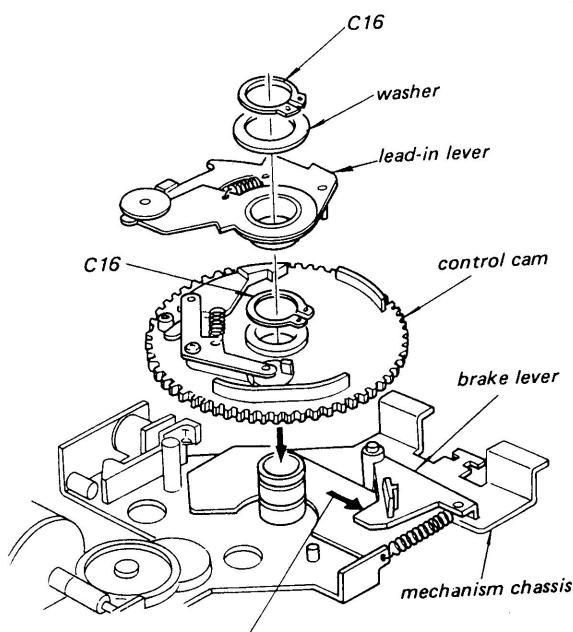


Be sure not to spoil the magnetic coating (dark brown color).

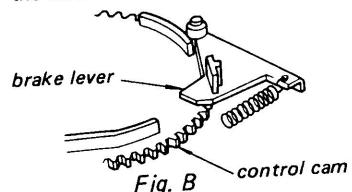
TONEARM SECTION REMOVAL



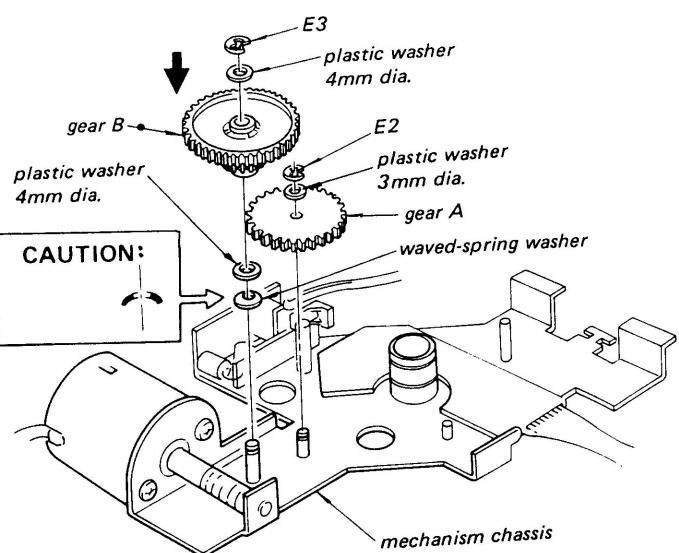
CONTROL CAM/LEAD-IN LEVER INSTALLATION

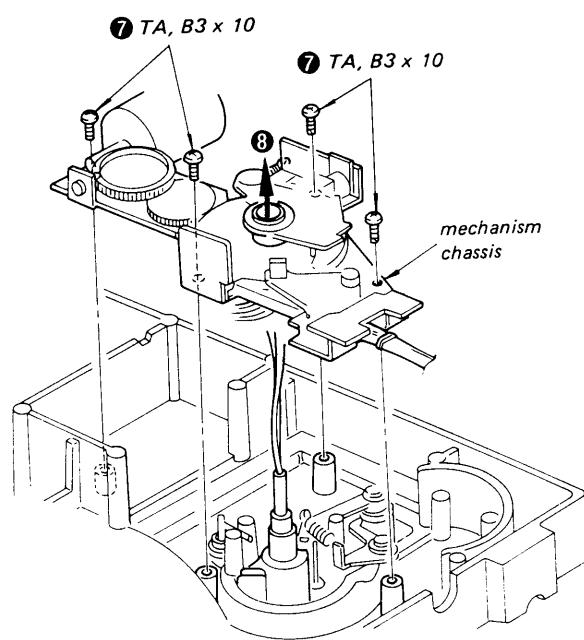
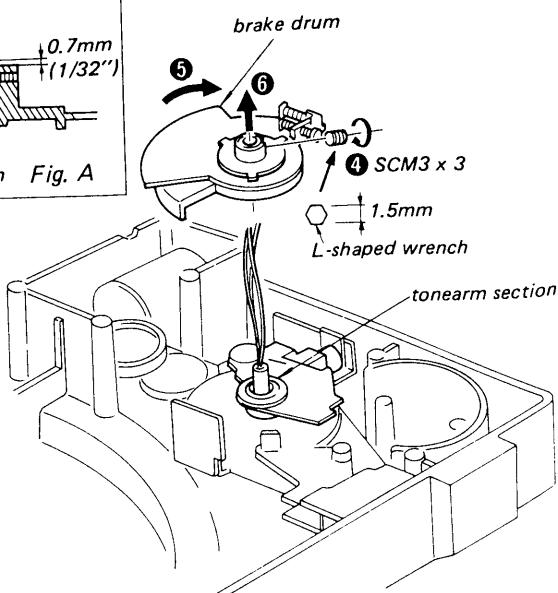
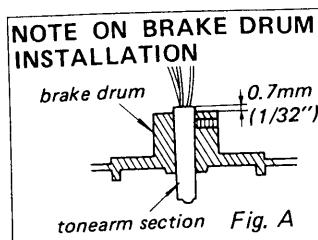


Push the brake lever and insert the control cam as shown in Fig. B.

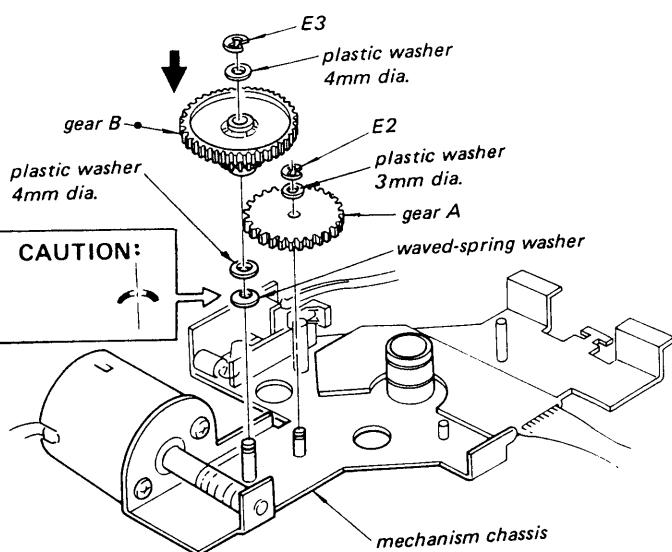


GEAR A/GEAR B INSTALLATION

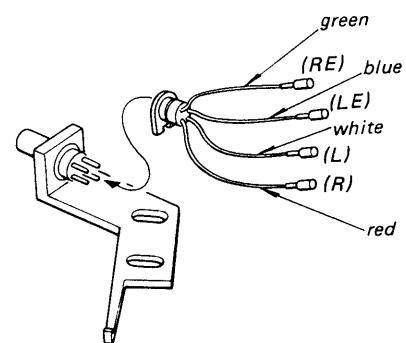




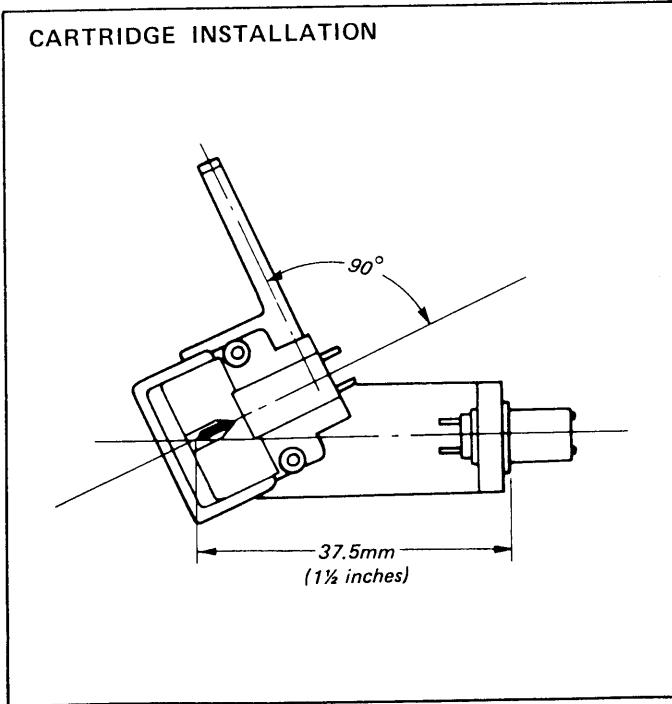
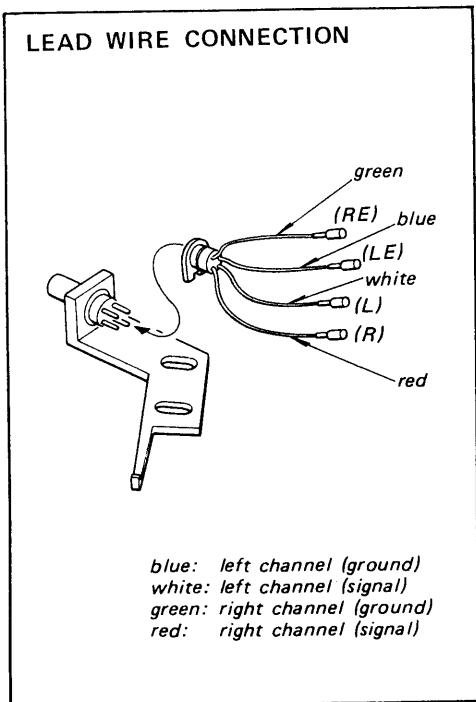
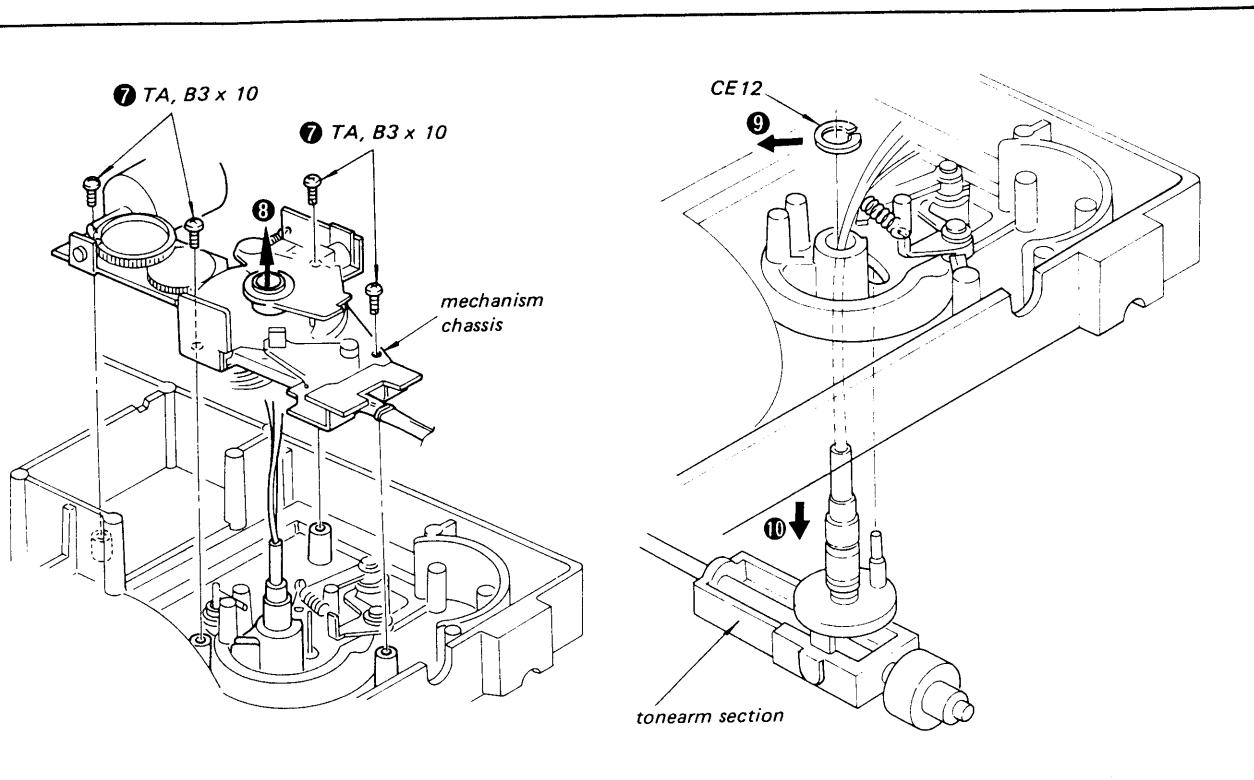
GEAR A/GEAR B INSTALLATION



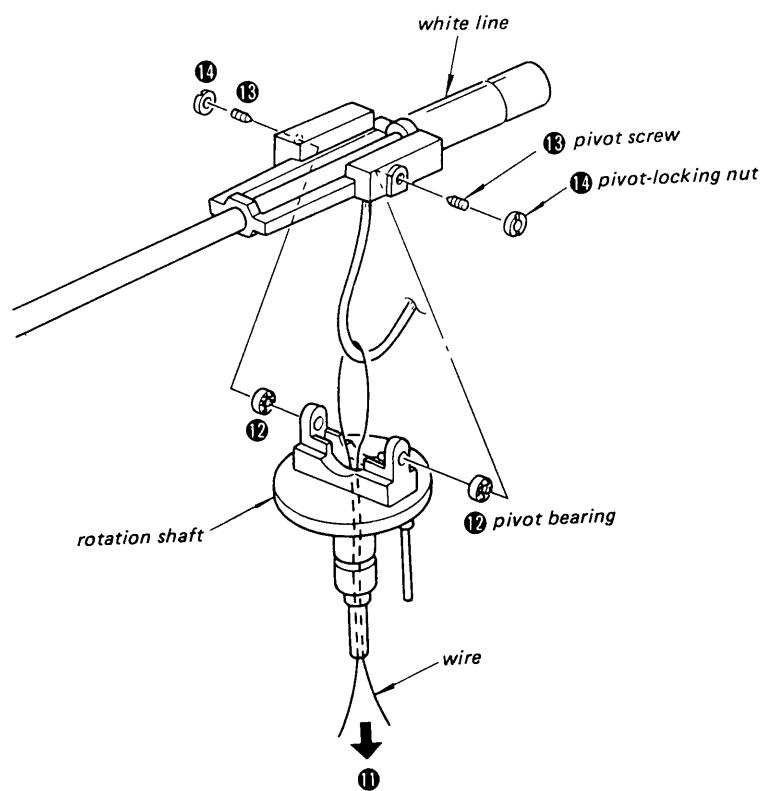
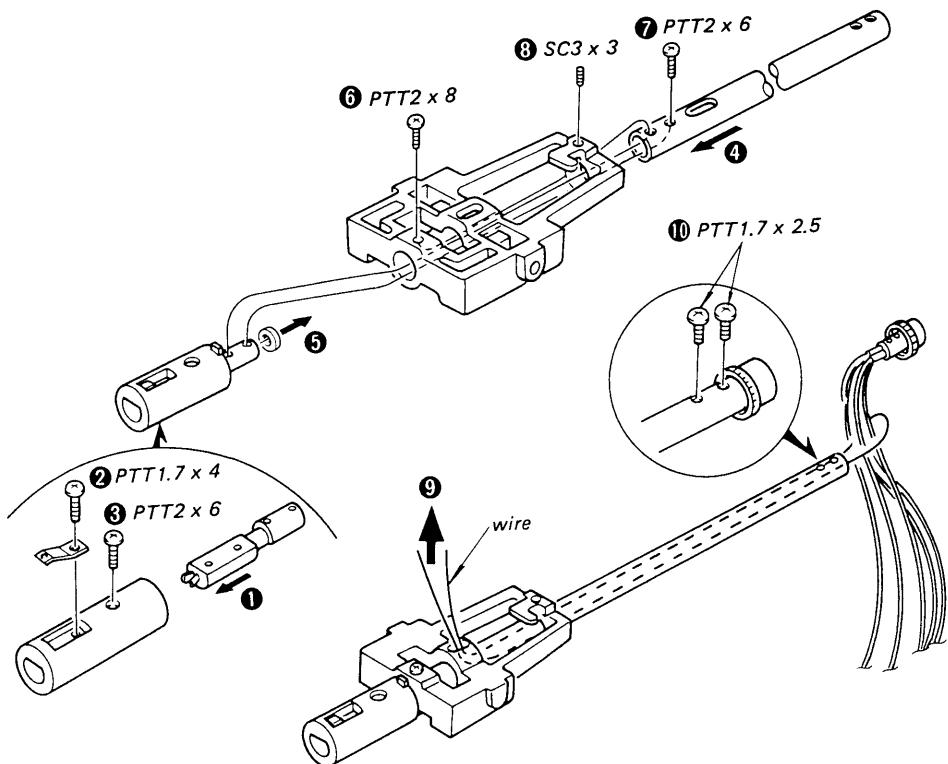
LEAD WIRE CONNECTION

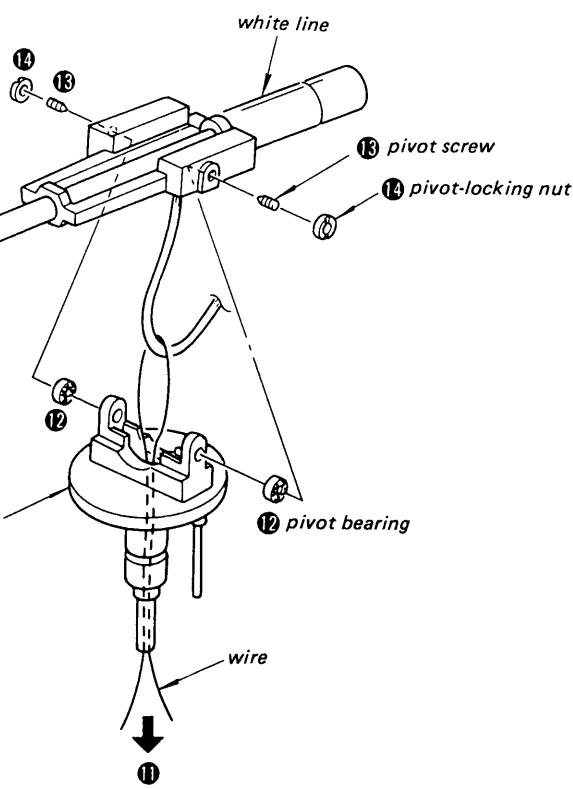
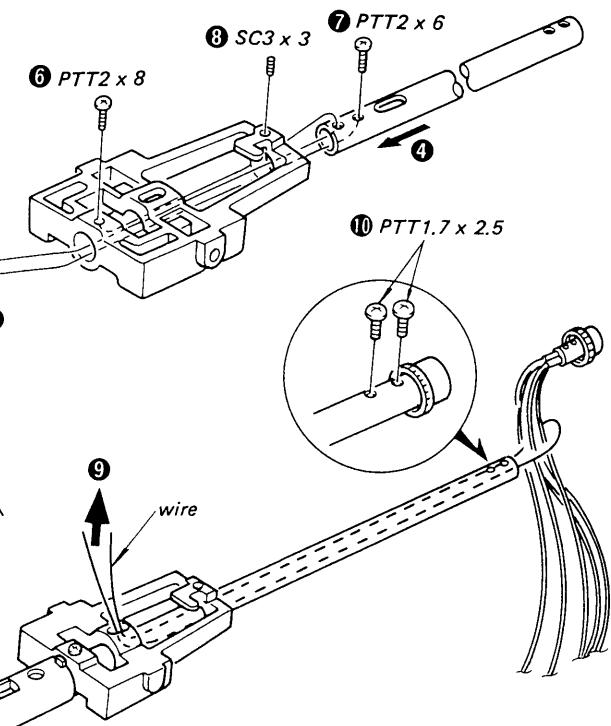


blue: left channel (ground)
white: left channel (signal)
green: right channel (ground)
red: right channel (signal)



TONEARM ASSEMBLY

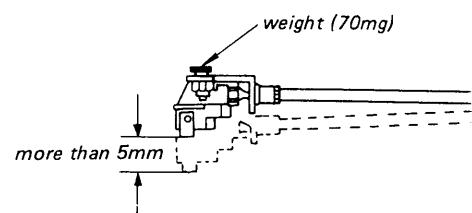




Longitudinal Sensitivity Adjustment

1. Make the longitudinal balance adjustment tonearm.
2. Repeating the following procedures, adjust pivot screw and the pivot-locking nut.
 - a. When the 70 mg weight is placed on the tonearm, the shell, the tonearm sinks more than 5 mm (measured at stylus-tip.)
 - b. When the weight is removed, the tonearm returns horizontally.

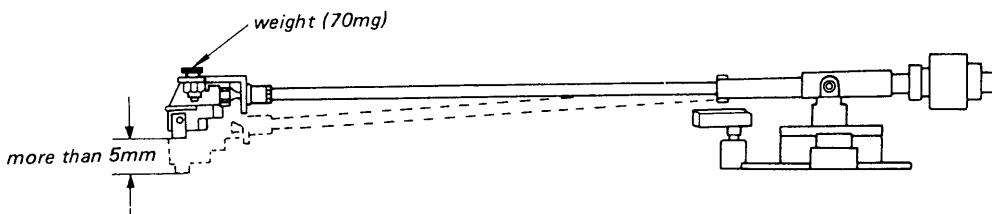
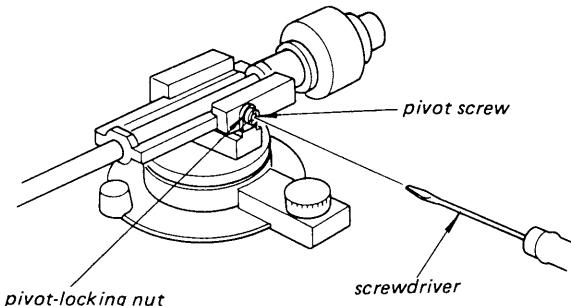
Note: Rotate the left and right pivot screws by numbers of turns.



SECTION 3
ADJUSTMENTS**Longitudinal Sensitivity Adjustment**

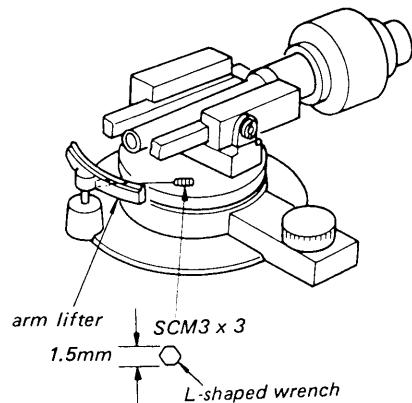
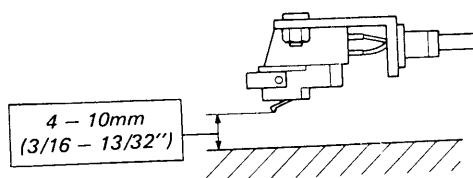
1. Make the longitudinal balance adjustment of tonearm.
2. Repeating the following procedures, adjust the pivot screw and the pivot-locking nut.
 - a. When the 70 mg weight is placed on the top of the shell, the tonearm sinks more than 5 mm (measured at stylus-tip)
 - b. When the weight is removed, the tonearm returns horizontally.

Note: Rotate the left and right pivot screws by same numbers of turns.

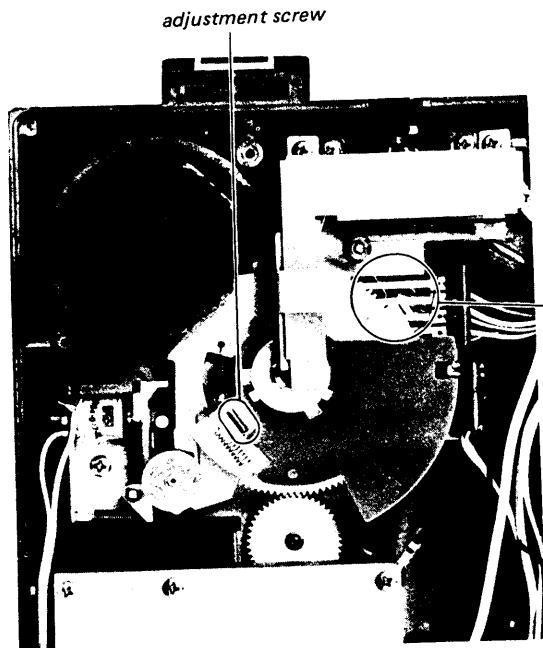


Stylus Height Adjustment

1. Bring the tonearm above the record.
2. Lift the arm lifter up and make sure that the clearance between the stylus tip and the record is 4 – 10 mm (3/16 – 13/32 inches).
3. If necessary, loosen the set screw and adjust the arm lifter height.

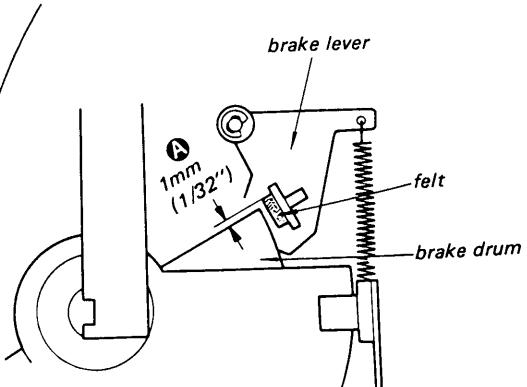
**Automatic Return Position Adjustment**

1. Confirm that clearance **A** is 1 mm (1/32 inches) as shown below.
2. Set the SPEED to 33 rpm.
3. Set the stylus on the groove of the test record (YFSC-16).

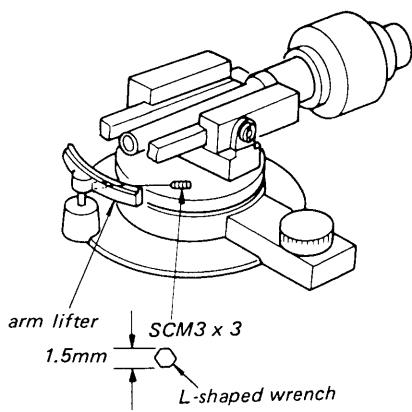


4. Adjust the adjustment screw so that the count is 10 – 13 just when the tonearm operation indicator first lights up.

Turning direction	Count of return-point
clockwise	large figure
counterclockwise	small figure

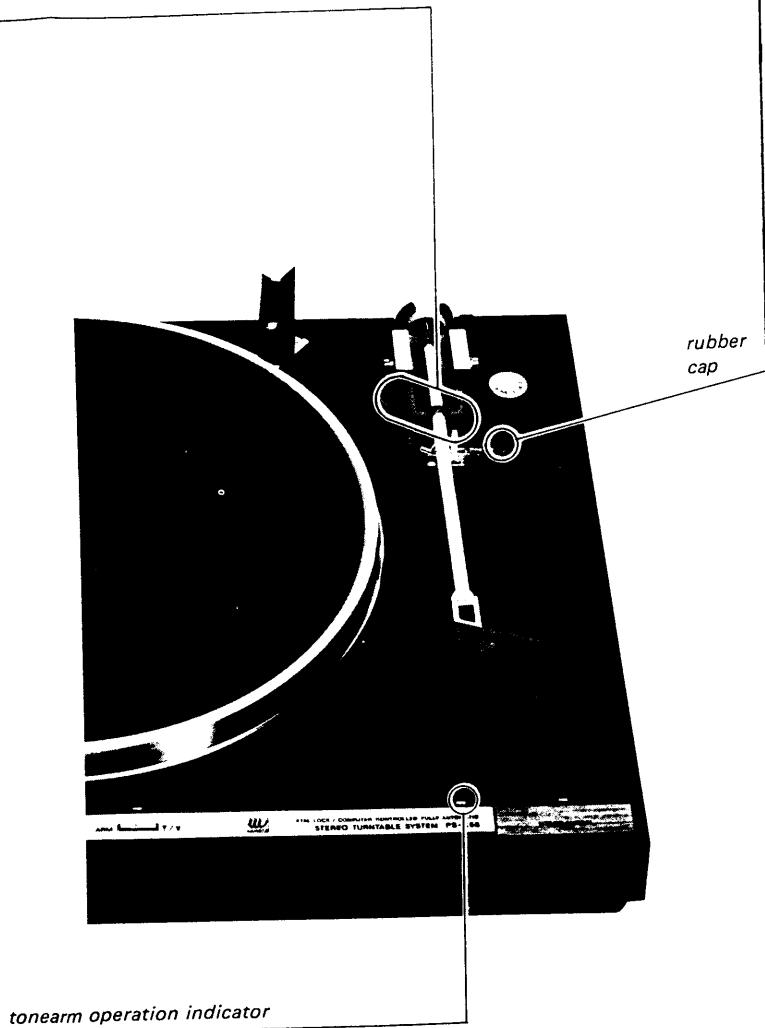
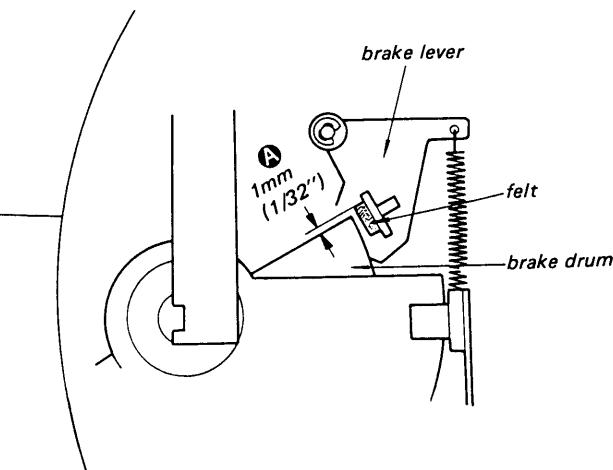


tonearm opera

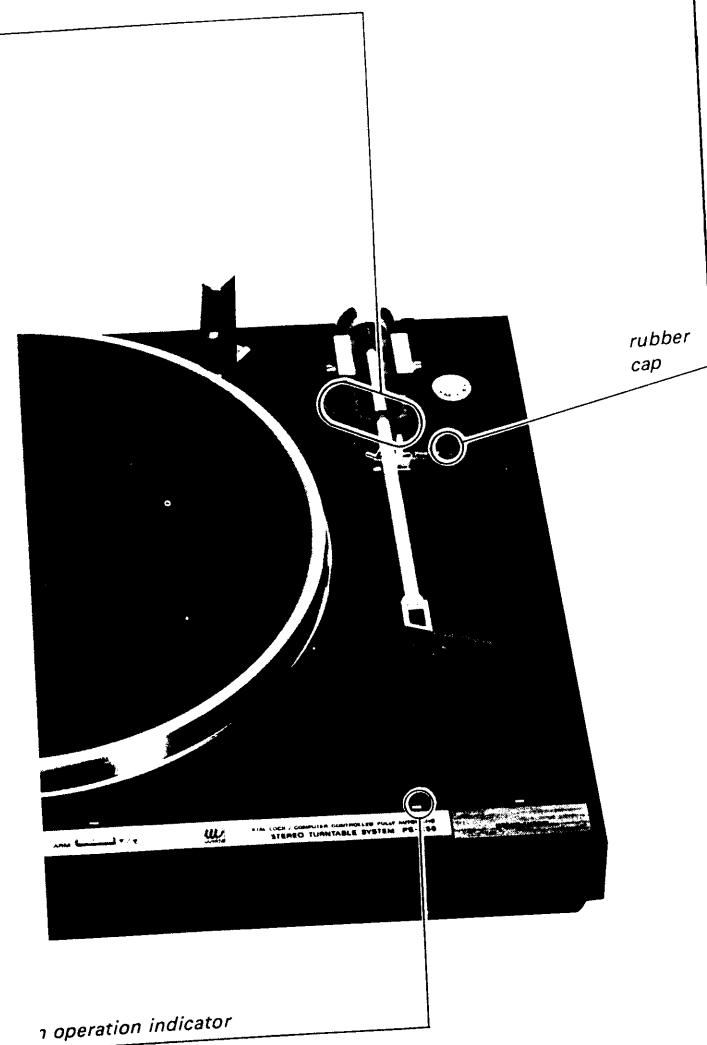


4. Adjust the adjustment screw so that the count is 10 – 13 just when the tonearm operation indicator first lights up.

Turning direction	Count of return-point
clockwise	large figure
counterclockwise	small figure



1.
2.
3.



Stylus Drop-point Adjustment

1. Remove the rubber cap.
2. Make sure that the stylus drops on the specified point of the test record.
test record: YFSC-16

Record size	Count of drop-point
30 (12")	6 to 16
17 (7")	14 to 31

3. If necessary, insert the screwdriver into the hole and adjust the drop-point by turning the adjustment screw.

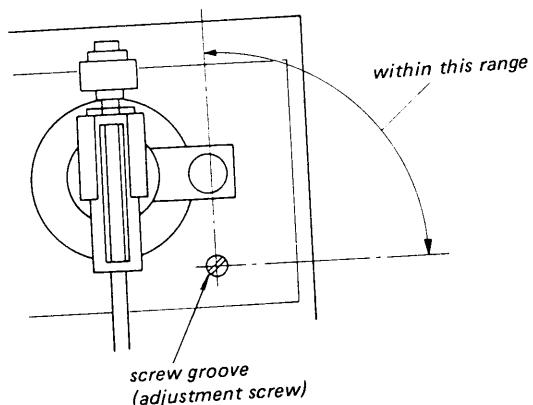
To change the drop-point inward:

Turn the adjustment screw slightly clockwise.
(The figure of the drop-point will be large.)

To change the drop-point outward:

Turn the adjustment screw slightly counter-clockwise. (The figure of the drop-point will be small.)

Note 1: Confirm that the screw groove is positioned within the range shown below.



Note 2: Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") records.

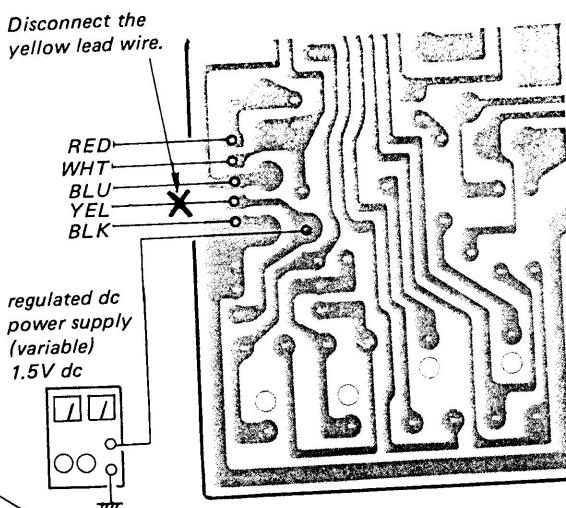
Hall Device Gain/Motor Amp Offset Adjustment

Setting:

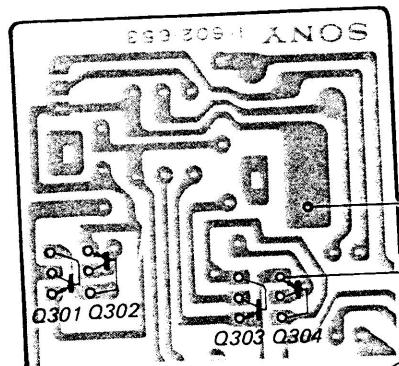
POWER switch: ON

(Remove the turntable before turning the switch on.)

1. Disconnect the yellow lead wire and connect the regulated power supply as shown below.



2. Connect oscilloscope to H1 and adjust RV301 for 5Vp-p reading on oscilloscope.
3. Connect oscilloscope to H2 and adjust RV302 for 5Vp-p reading on oscilloscope.
4. Connect VTVM or oscilloscope to H1 and adjust RV303 for 0V dc VTVM reading or for the waveform on oscilloscope as shown below.
5. Connect VTVM or oscilloscope to H2 and adjust RV304 for 0V dc VTVM reading or for the waveform on oscilloscope as shown below.



Speed Detecting Head Output Level Adjustment

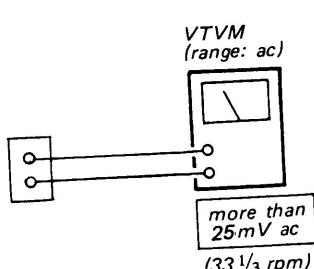
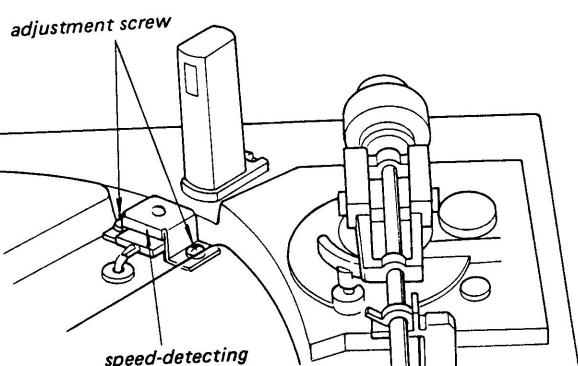
Setting:

POWER switch: ON

1. Adjust the position of the head so that the VTVM reading is more than 25 mV ac at $33\frac{1}{3}$ rpm.
2. Make sure that the head does not touch the turntable and tighten the screws securely.

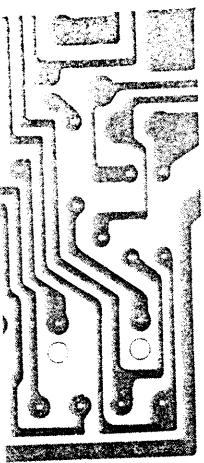
Note: The clearance between the magnet coated rim and the speed-detecting head is more than 0.3 mm.

— Adjustment Location —

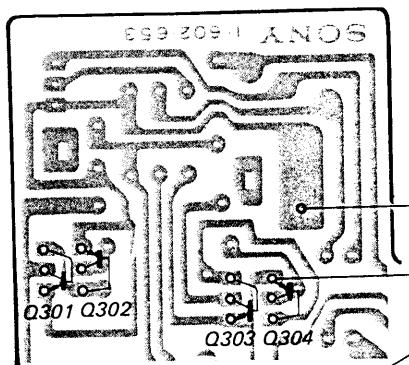


Adjustment

ng the switch
and connect
shown below.

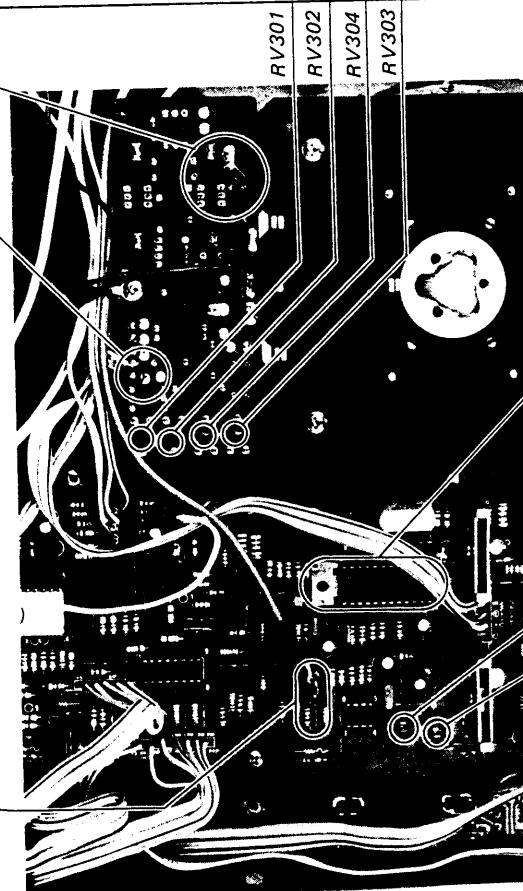
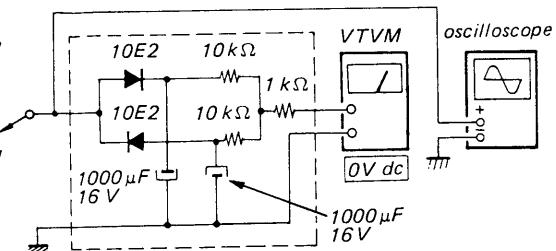
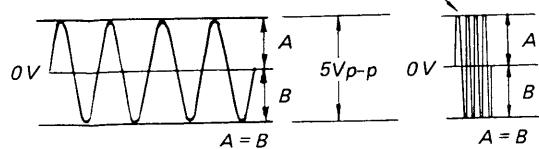


2. Connect oscilloscope to H1 and adjust RV301 for 5Vp-p reading on oscilloscope.
3. Connect oscilloscope to H2 and adjust RV302 for 5Vp-p reading on oscilloscope.
4. Connect VTVM or oscilloscope to H1 and adjust RV303 for 0V dc VTVM reading or for the waveform on oscilloscope as shown below.
5. Connect VTVM or oscilloscope to H2 and adjust RV304 for 0V dc VTVM reading or for the waveform on oscilloscope as shown below.

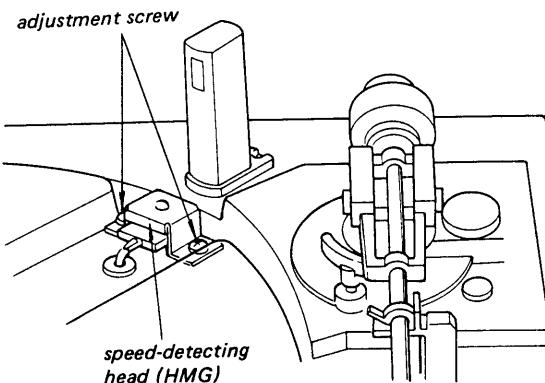


Waveform on Oscilloscope:

Note: Set the sweep time longer for easy waveform checking.

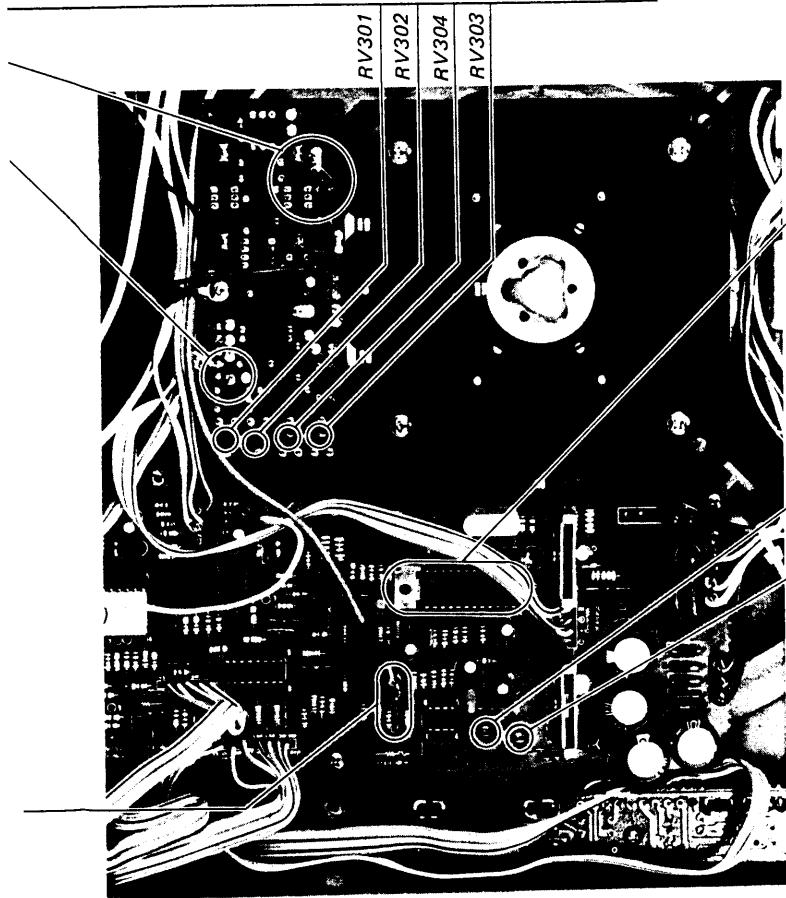
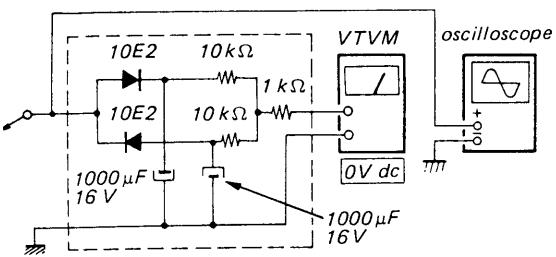
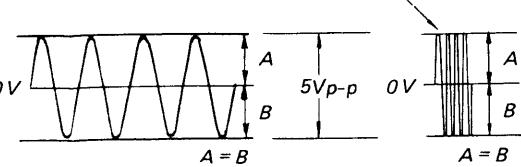


— Adjustment Location —



Waveform on Oscilloscope:

Note: Set the sweep time longer for easy waveform checking.

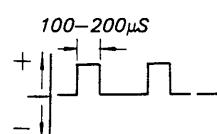


Speed Adjustment

Setting:

POWER switch: ON

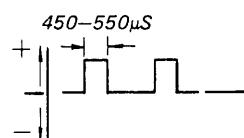
1. Set the SPEED to 45 rpm.
2. Adjust RV202 for specified waveform as shown on the oscilloscope.



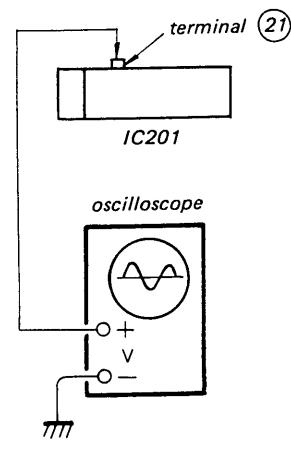
Note: The waveform should appear to positive side.

3. Set the SPEED to 33 rpm.

4. Adjust RV201 for specified waveform as shown on the oscilloscope.



Note: The waveform should appear to positive side.



RV202 RV201

fied waveform as shown

e: The waveform should appear to positive side.

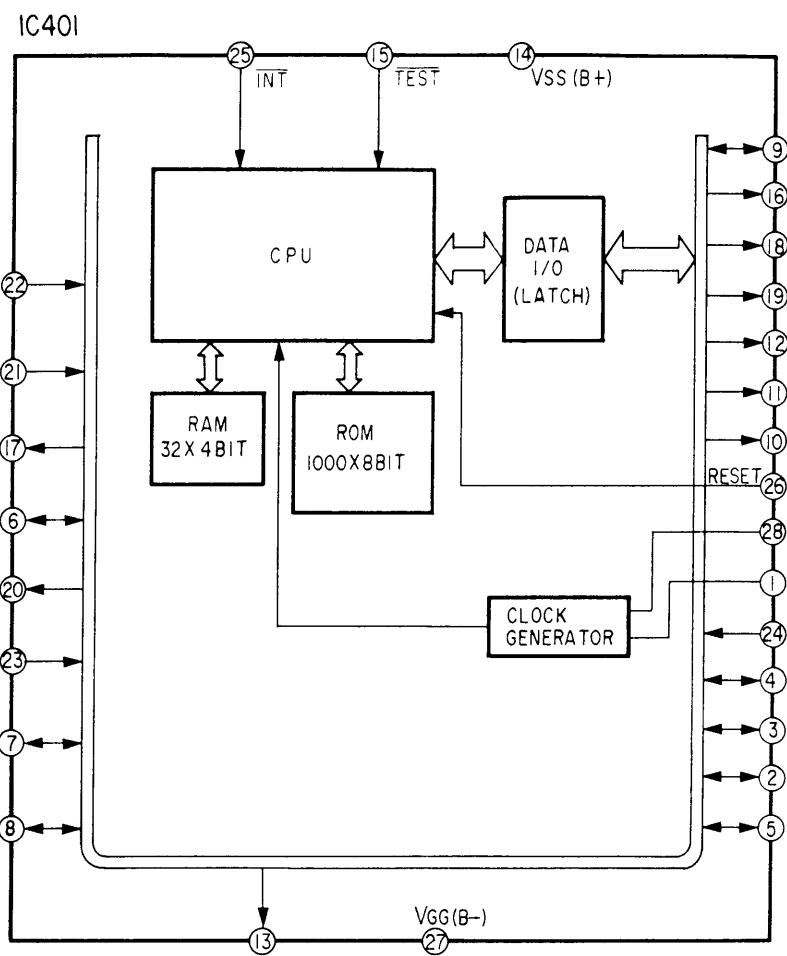
fied waveform as shown

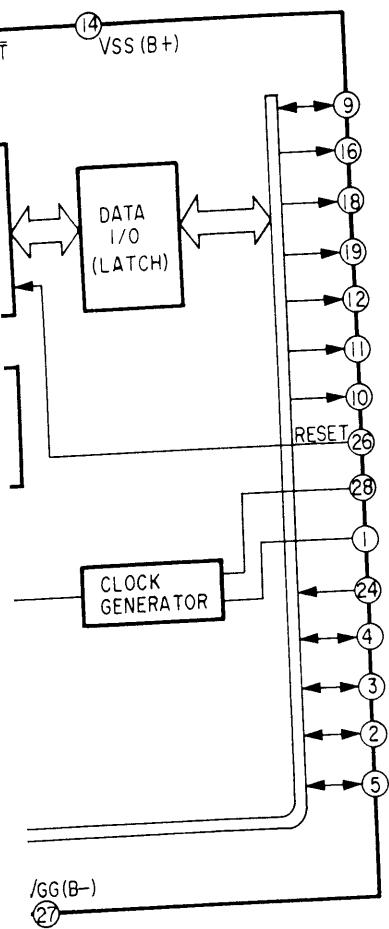
e: The waveform should appear to positive side.

terminal (21)

IC201

lloscope





SECTION 4

DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\mu\text{F}$
 50VW or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted.
 $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- : fuseable resistor.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a VOM (20k Ω /V).
no mark: When the POWER switch (S6) is "ON" and the tonearm is on the arm rest.
- Voltage variations may be noted due to normal production tolerances.
- Switch

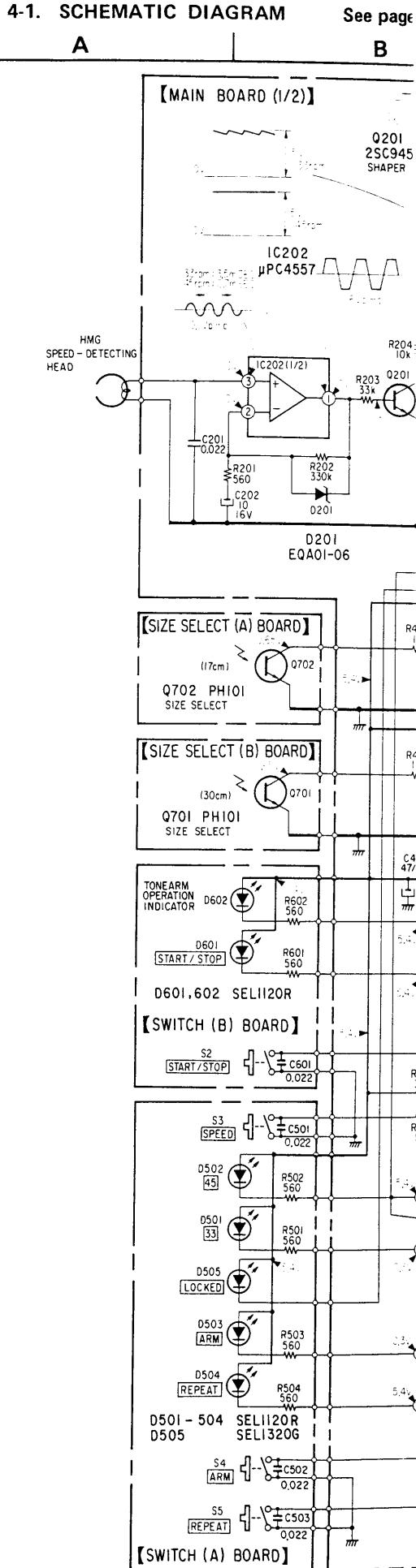
Ref. No.	Switch	Position
S1	CAM SWITCH	OFF
S2	START/STOP	OFF
S3	SPEED	OFF
S4	ARM	OFF
S5	REPEAT	OFF
S6	POWER	OFF
S7	MUTING	STOP

- : R438

US model: serial No. up to 801,000 AEP model: serial No. up to 501,100 UK model: serial No. up to 601,000	10k Ω
US model: serial No. 801,001 and later AEP model: serial No. 501,101 and later UK model: serial No. 601,001 and later Canadian model E model	deleted

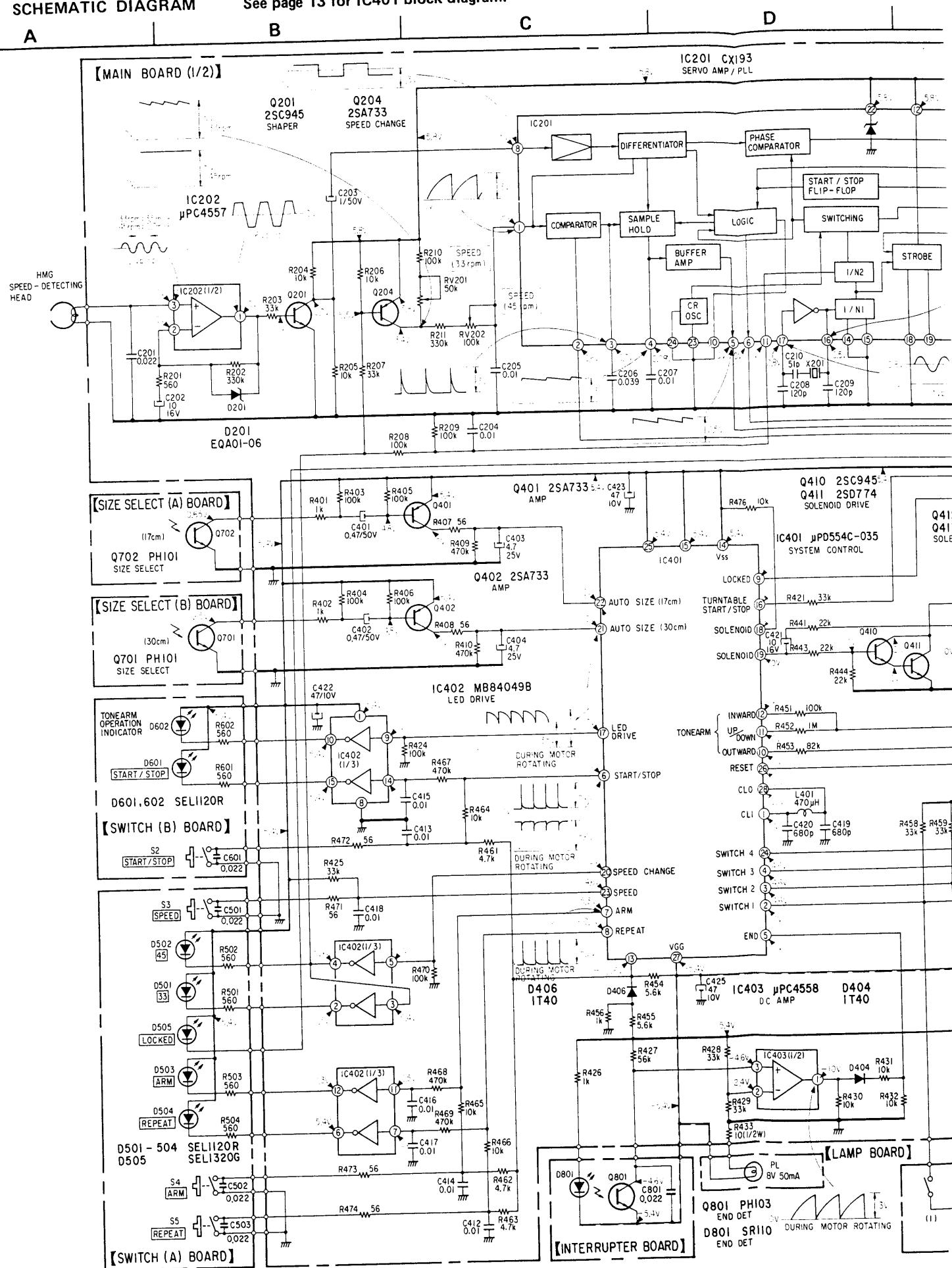
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

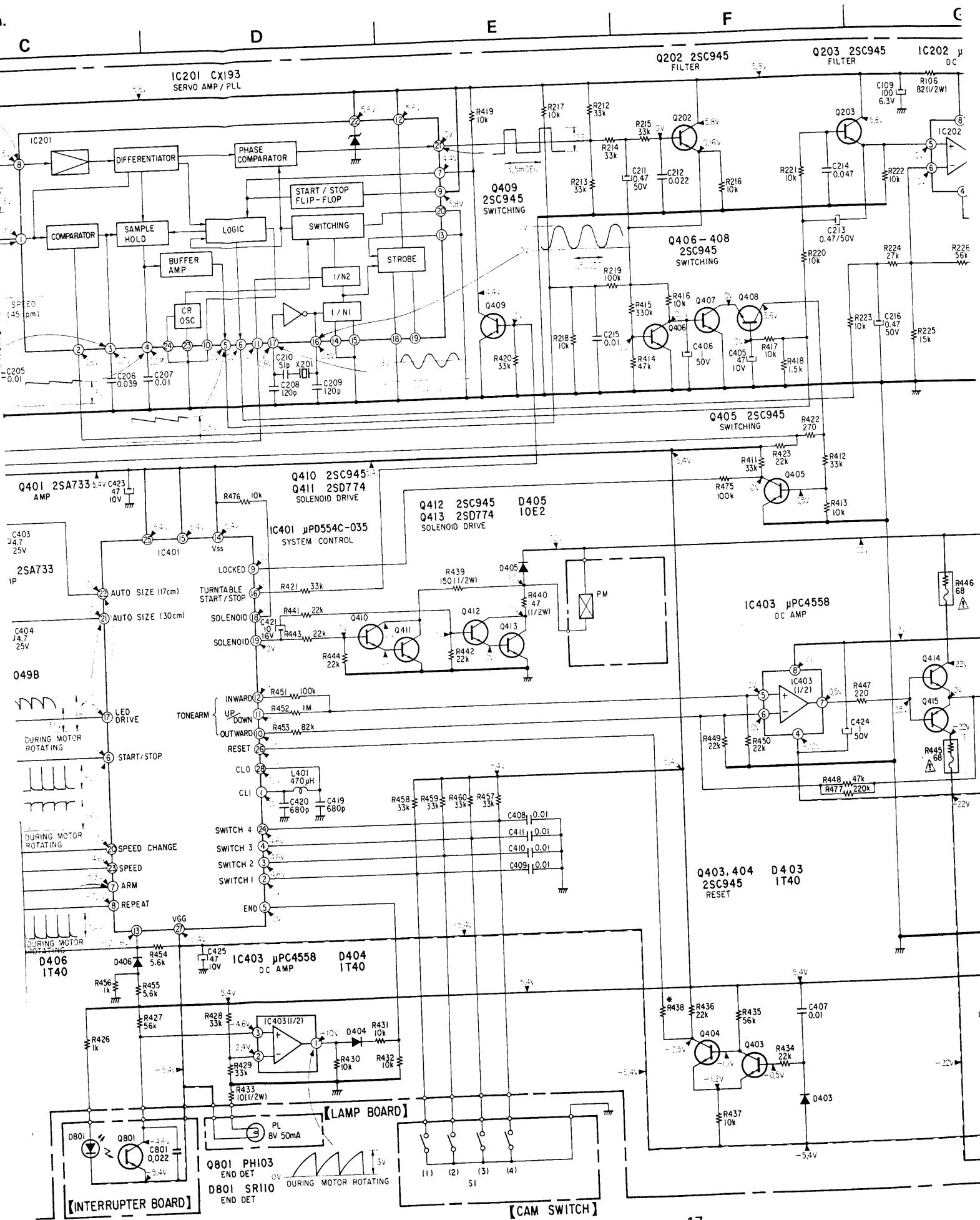
Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



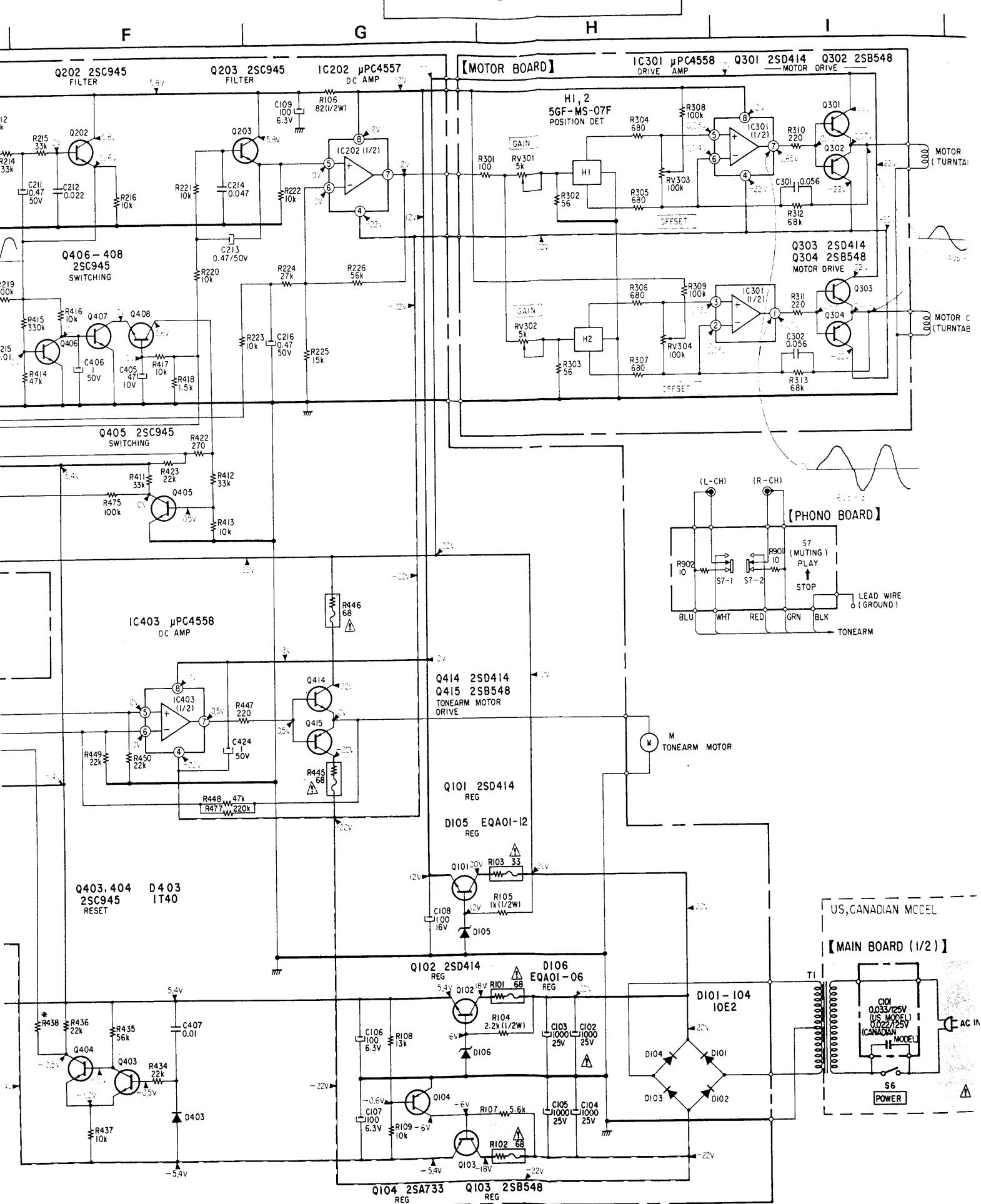
4-1. SCHEMATIC DIAGRAM

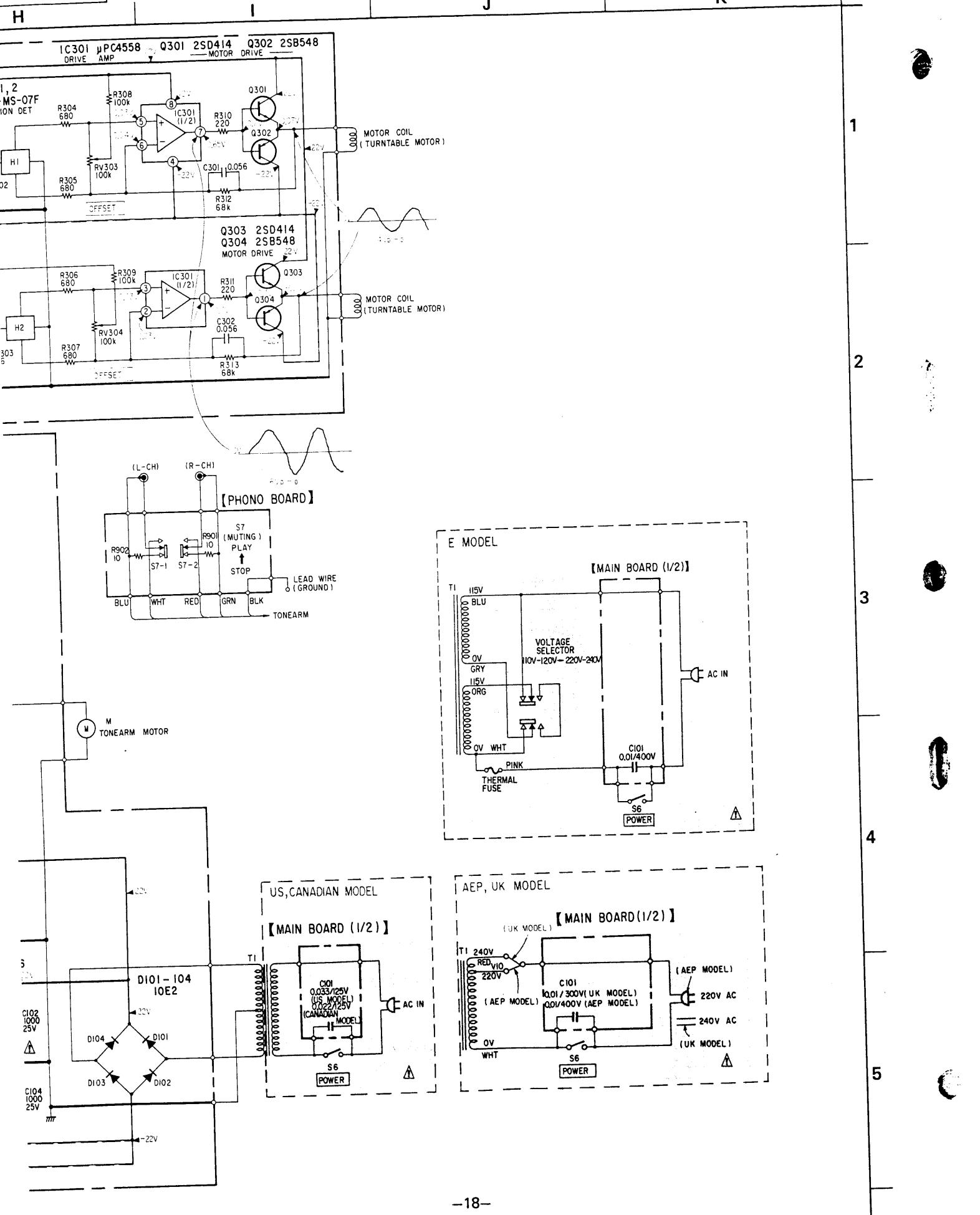
See page 13 for IC401 block diagram.





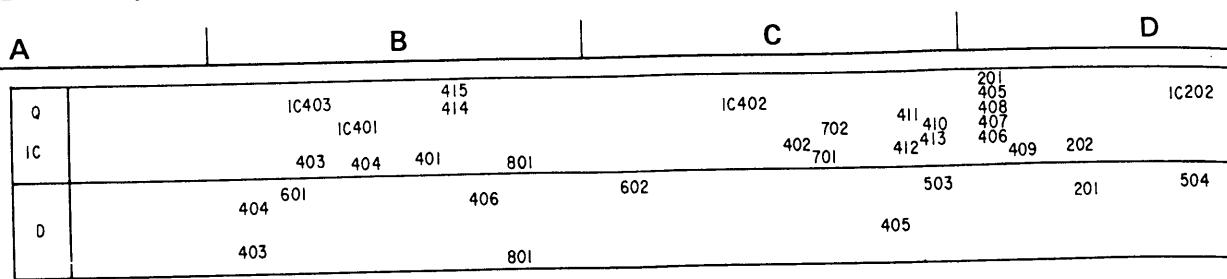
PS-X55 PS-X55



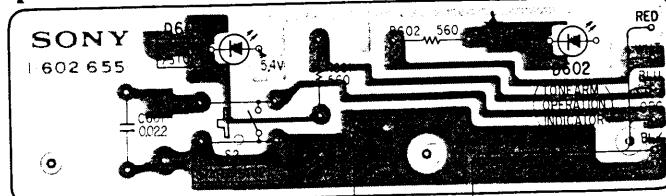


4-2. MOUNTING DIAGRAM - *Conductor Side* -

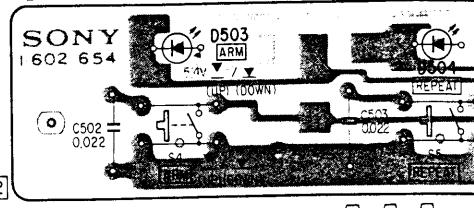
See page 25 for the replacement semiconductors.



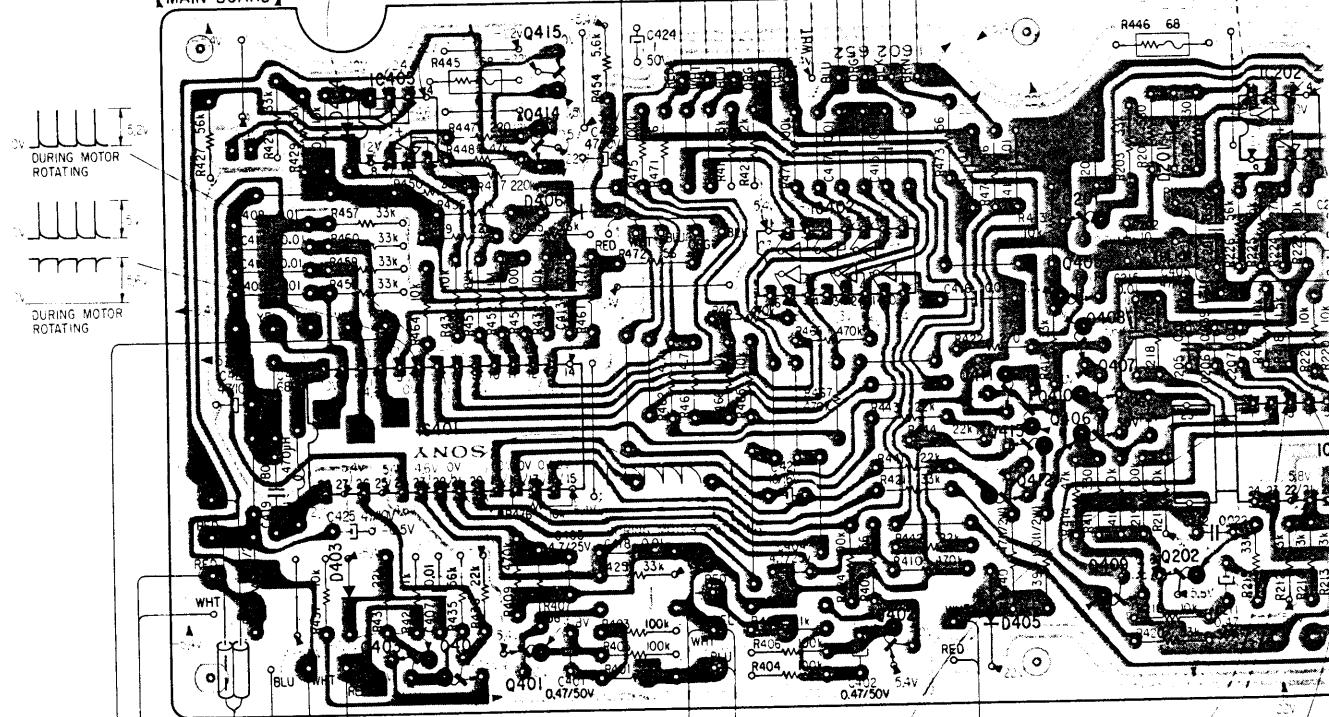
【SWITCH (B) BOARD】



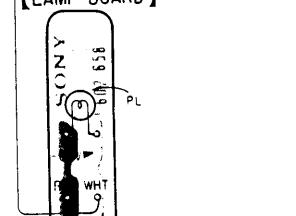
【SWITCH (A) BOARD】



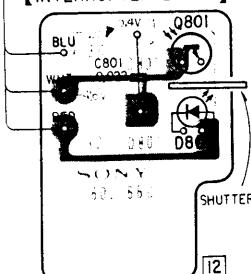
【MAIN BOARD】



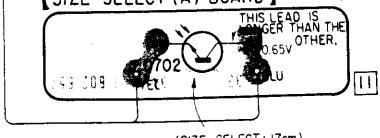
LAMP BOARD



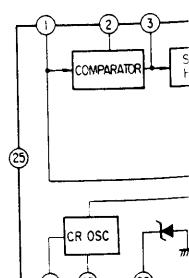
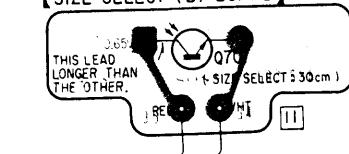
INTERRUPTER BOARD



【SIZE SELECT (A) BOARD】



【SIZE SELECT (B) BOARD】



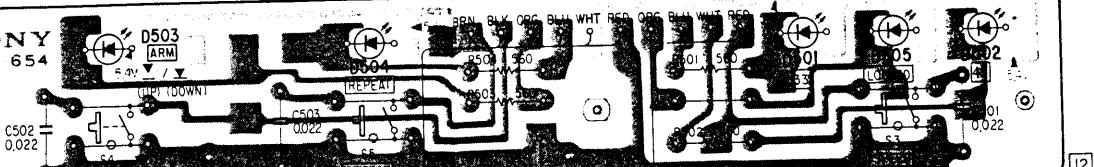
PS-X55 **PS-X55**

US model (Serial No. 801,001 and later)
AEP model (Serial No. 501,101 and later)
UK model (Serial No. 601,001 and later)
Canadian model F | G
-E model-

		D		E		Canada	
02		411	201	IC202		.103	104
		410	405				101
		413	408				
		412	407	IC201	203	102	
		413	406		204		
		409	409				
		202	202				
						501	505
							502
		503	201	504			
						105	
							104
							103
							102
		405				106	101

301 302
IC301 303 304

ATCH (A) BOARD]



【MOTOR BOARD】

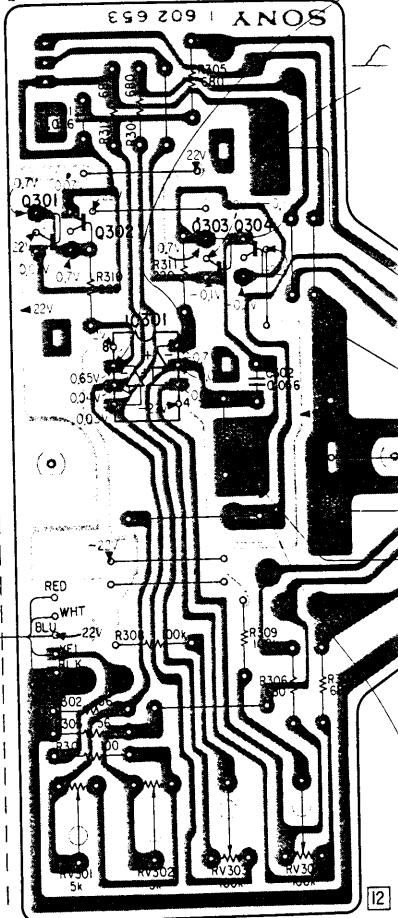
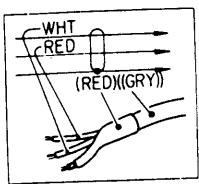


Diagram showing a connection labeled '1 BOARD'. It features a circular connector labeled '1070' with a central pin, and a cable labeled '1071' with a 'SELECT 5 30cm' label. The connection is shown with a line and a box labeled '11'.

US. CANADIAN MODEL

Note:

- Color code of sleeveing over the end of the jacket.



LEAD WIRE
(GROUND)

- : B+ pattern
- : B- pattern

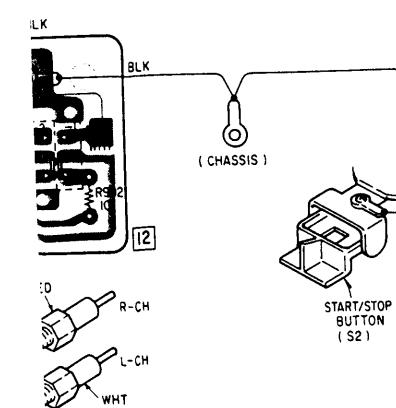
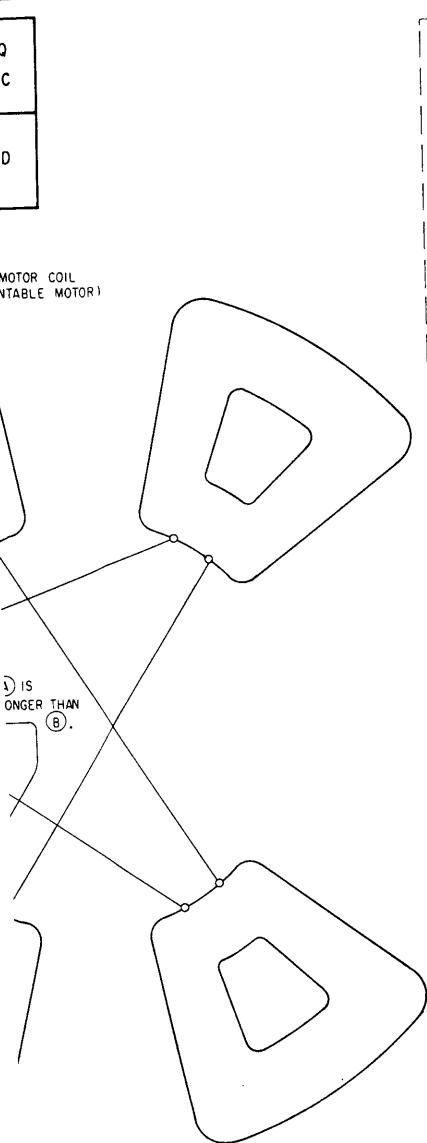
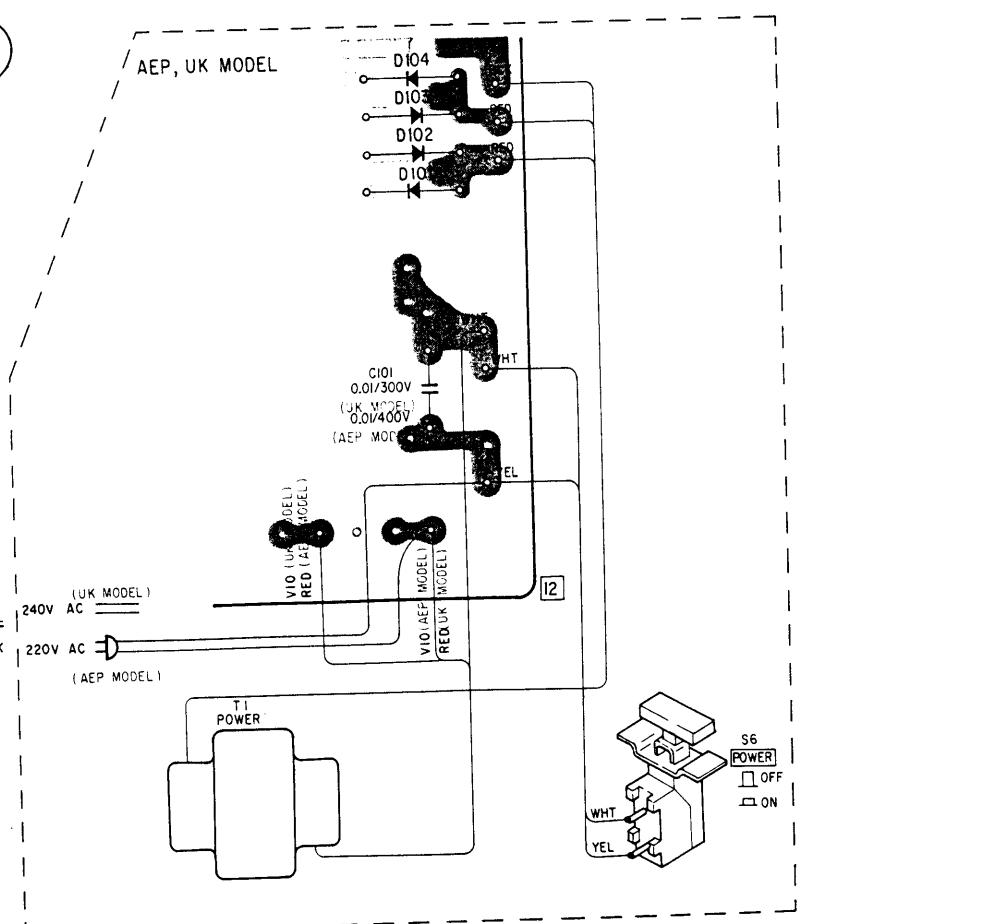
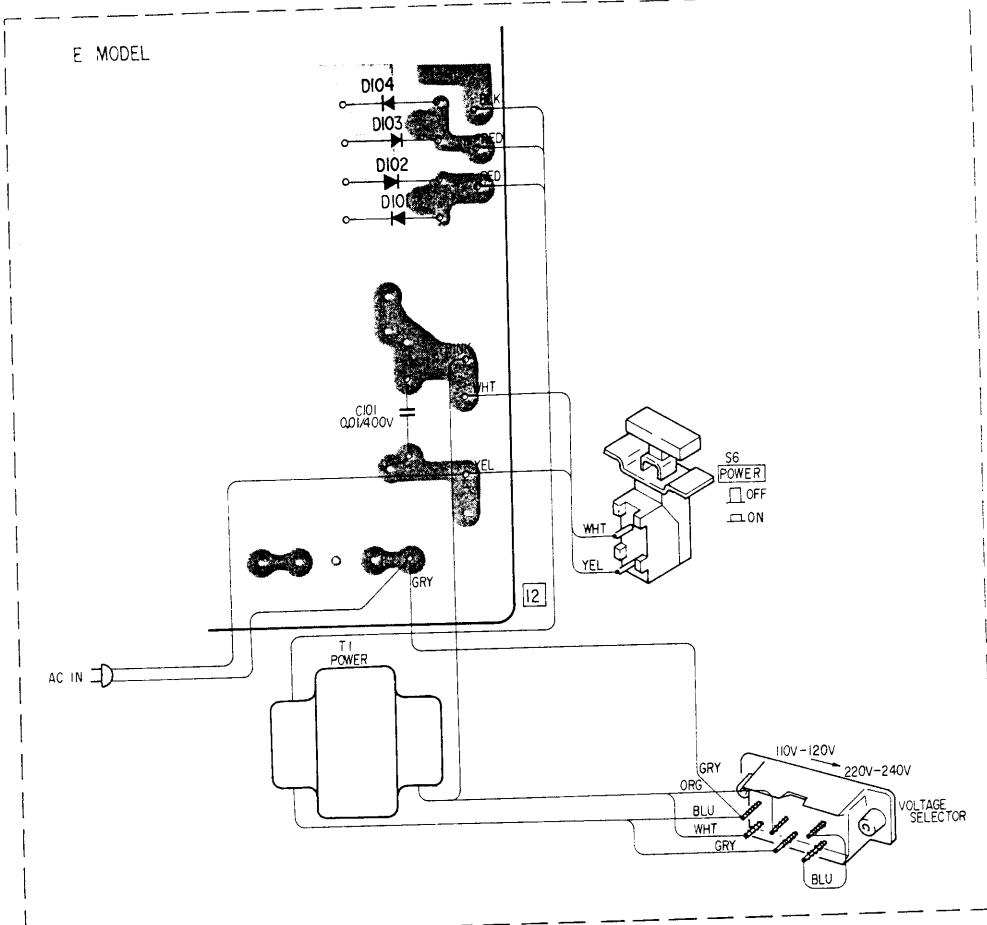
US model (Serial No. 801,001 and later)
AEP model (Serial No. 501,101 and later)
UK model (Serial No. 601,001 and later)
Canadian model J | K
E model

PS-X55

Canadian model
E model

K

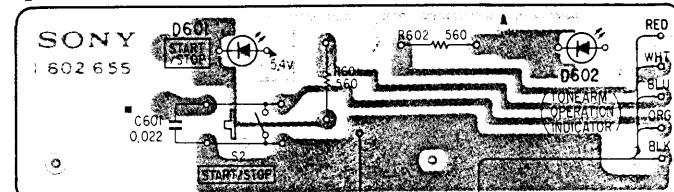
L



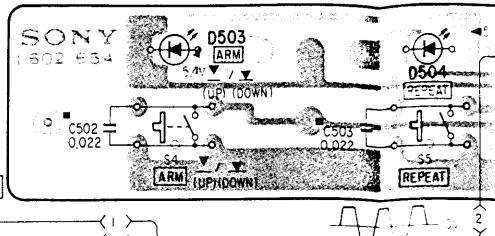
4-3. MOUNTING DIAGRAM - *Conductor Side -* See page 25 for the replacement semiconductors.

A	B	C	D
Q	IC403 415 414 IC401	IC402 702 402 701 411 410 412 413	201 405 408 407 406 409 202 IC202 IC2
IC	403 404 401 801	602	503 201 504
D	404 601 406 403 801	405	

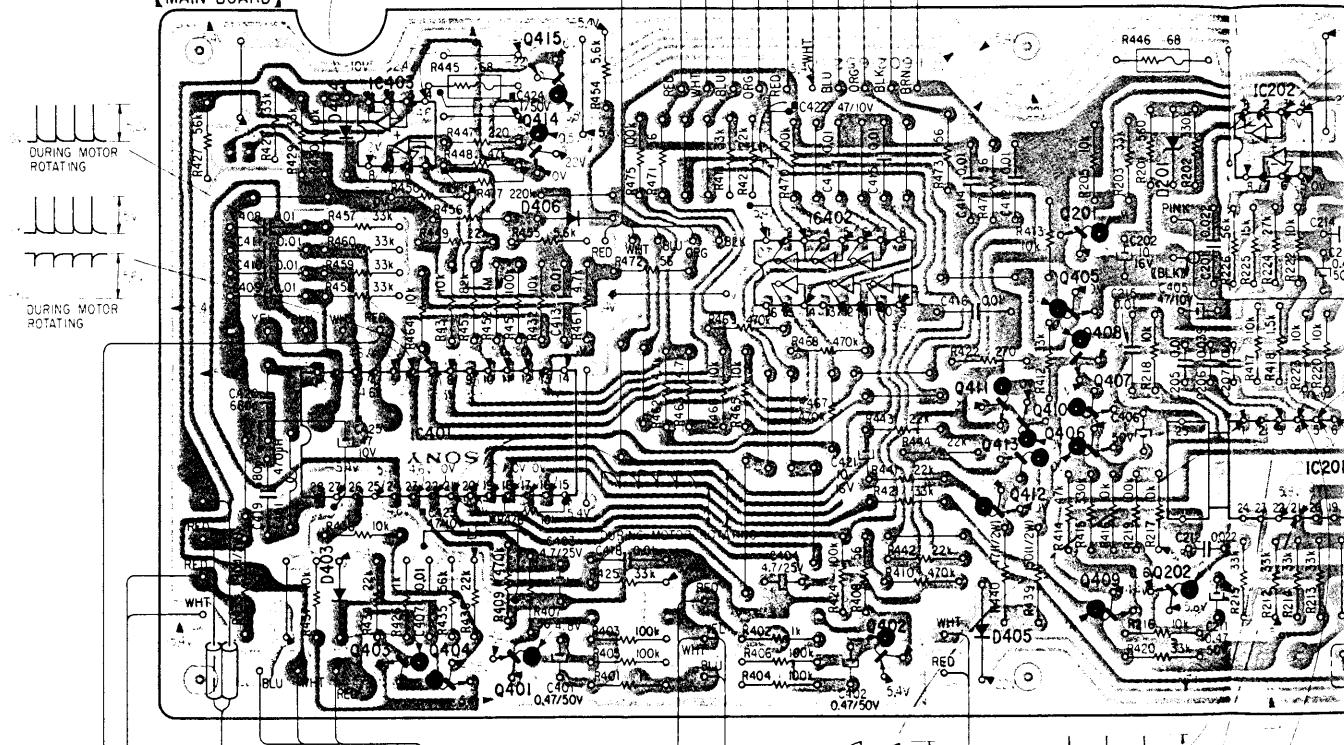
【 SWITCH (B) BOARD 】



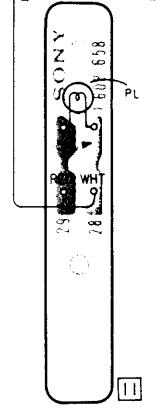
【SWITCH (A) BOARD】



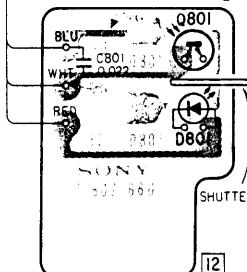
【MAIN BOARD】



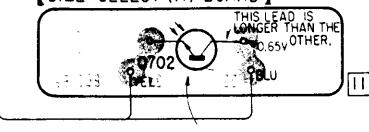
【LAMP BOARD】



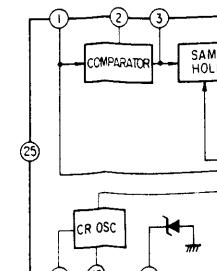
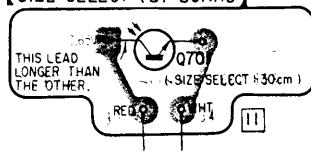
【INTERRUPTER BOARD】



【SIZE SELECT (A) BOARD】



[SIZE SELECT (B) BOARD]



US model (Serial No. up to 801,000)
 AEP model (Serial No. up to 501,100)
 UK model (Serial No. up to 601,000)

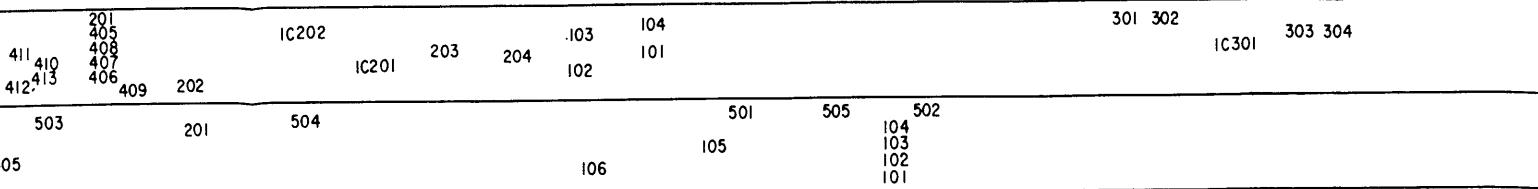
P

D

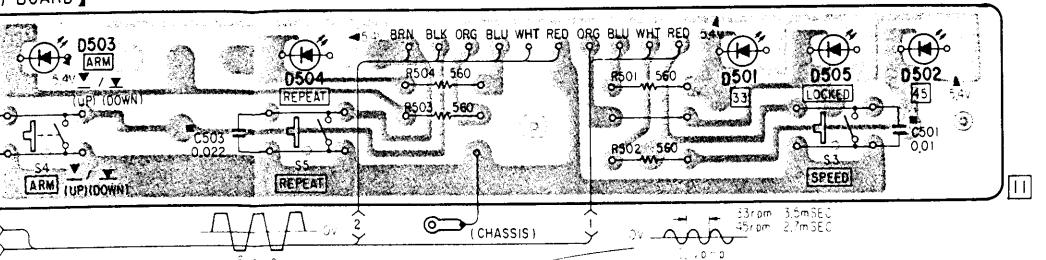
E

F

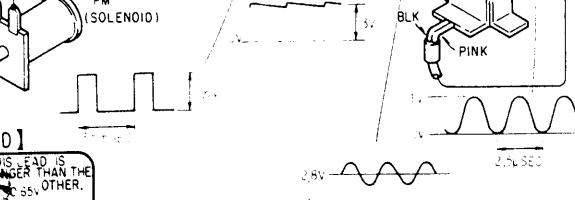
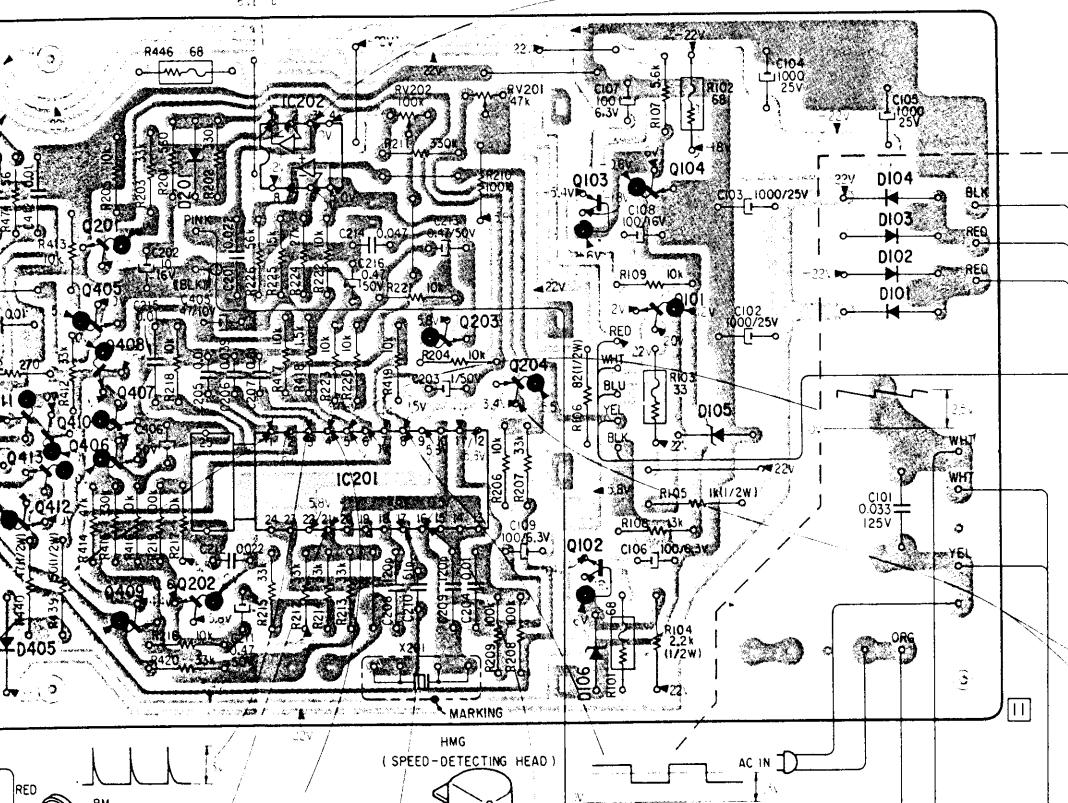
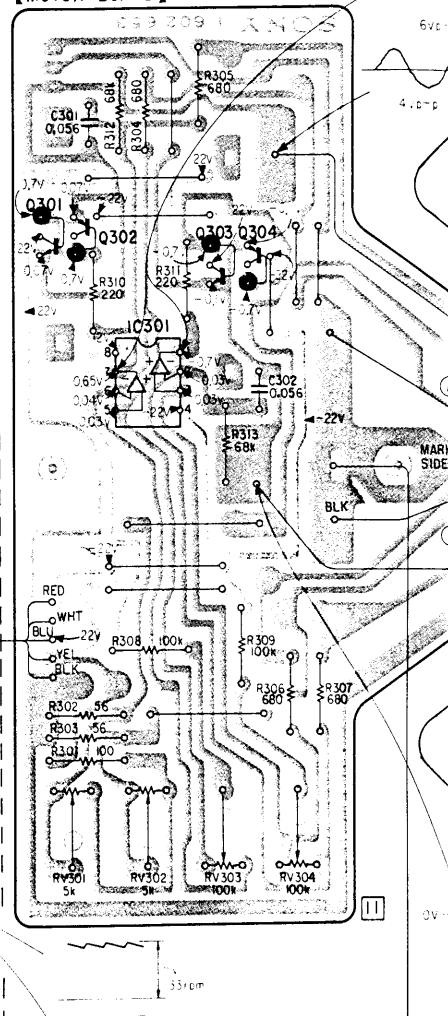
G



BOARD



MOTOR BOARD



D

IS LEAD IS
NOT THAN THE
OTHER.

0.55V

YEL

BLK

RED

PM
(SOLENOID)

BLK

PINK

BLK

</div

,000)
,100)
1,000)

PS-X55

US model (Serial No. 1)
AEP model (Serial No. 2)
UK model (Serial No. 3)

G

H

1

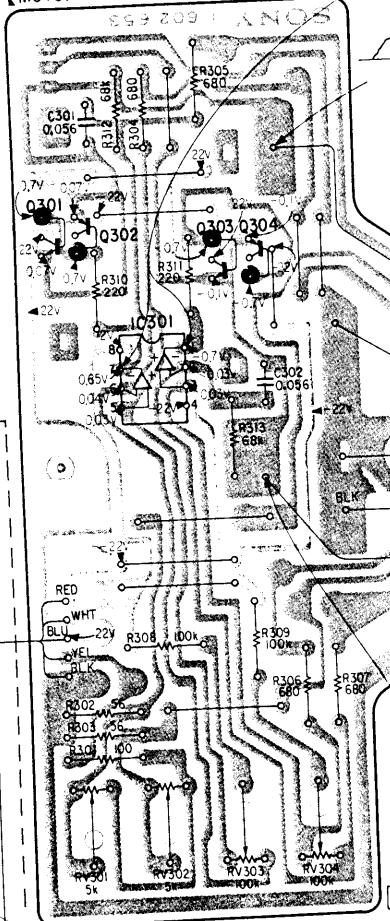
J

301 302 303 304
IC301

9

2

【MOTOR BOARD】



MOTOR COIL
(TURNTABLE MOTOR)

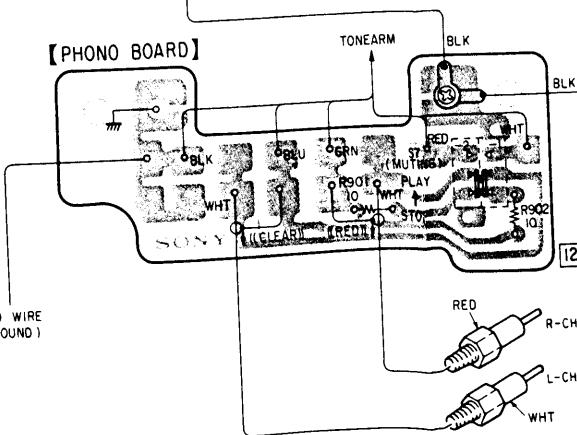
A diagram of a surface with boundary components. The main boundary is a large, irregular shape. Inside it, there is a smaller, rounded rectangular region. At the bottom left, there is a handle-like feature consisting of a small circle connected by a line to a larger, roughly triangular region.

A diagram showing a large rounded rectangle. Inside it, there is a smaller, also rounded rectangle. At the top-left corner of the large rectangle, there are two small circles, one above the other, connected by a horizontal line.

/ AFP UK MODEL

LEAD WIRE
(GROUND)

【PHONO BOARD】



(CHASSIS)

START/STOP
BUTTON

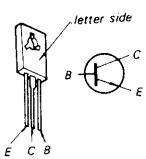
| (UK MODEL)
| 240V AC 
| 220V AC 
| (AEP MODEL)

10 (1990)

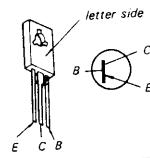
Replacement Semiconductors

For replacement, use semiconductors except in ().

2SD414

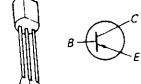
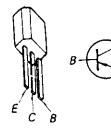


2SB548



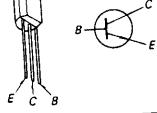
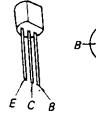
2SA1027R

(2SA733)

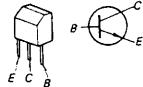


2SC1364

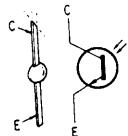
(2SC945)



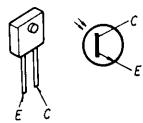
2SC1475 (2SD774)



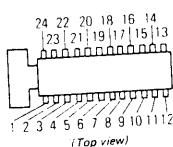
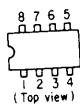
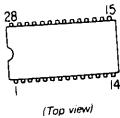
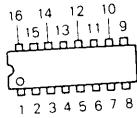
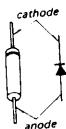
PH101



PH103



CX193

 μ PC4557C
 μ PC4558C μ PD554C035 μ PD4049C (MB84049B)10E2
1S1555 (1T40)EQB01-12Z (EQA01-12)
EQB01-06 (EQA01-06)

A

B

C

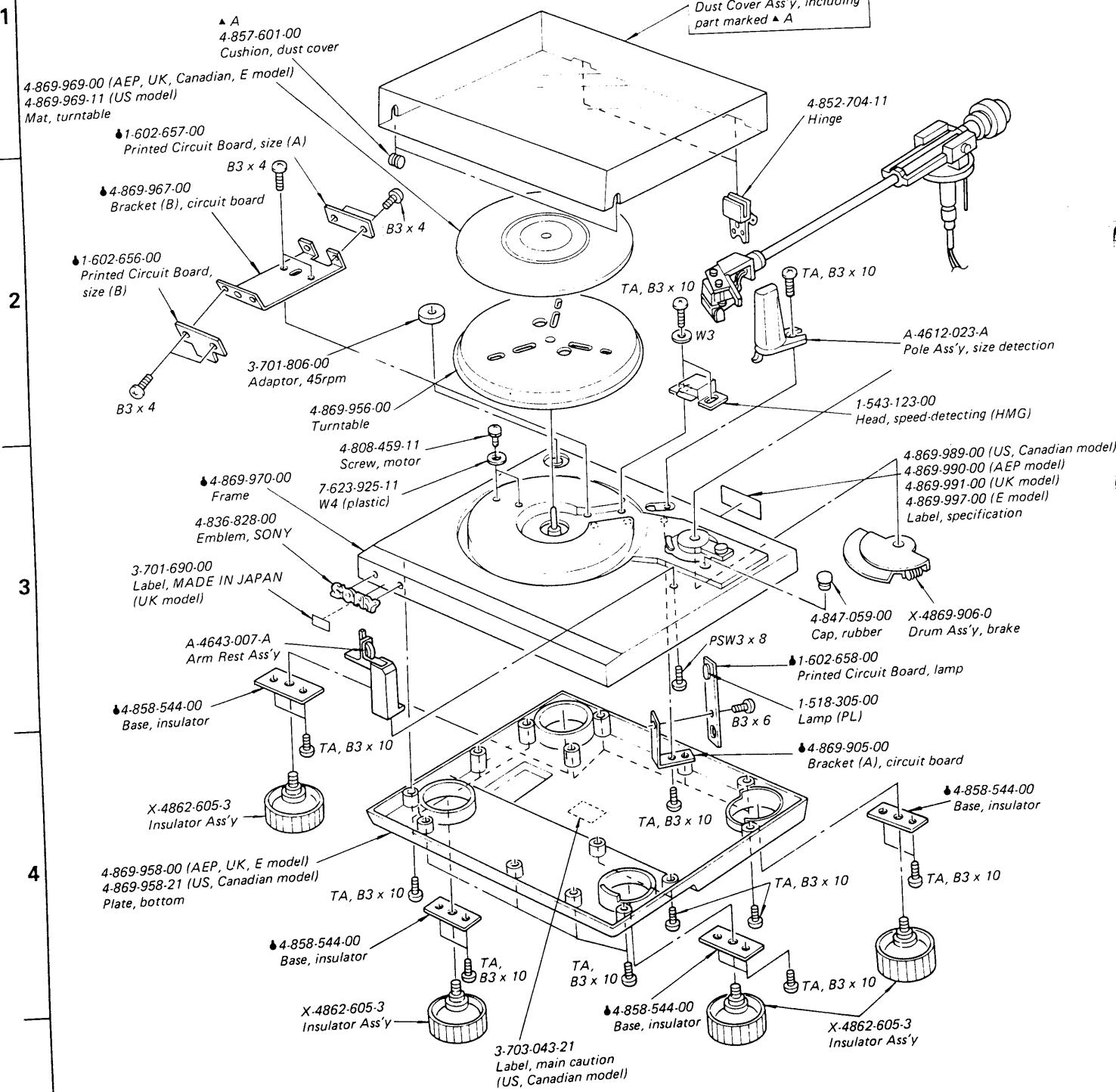
D

(1)

Note:

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head



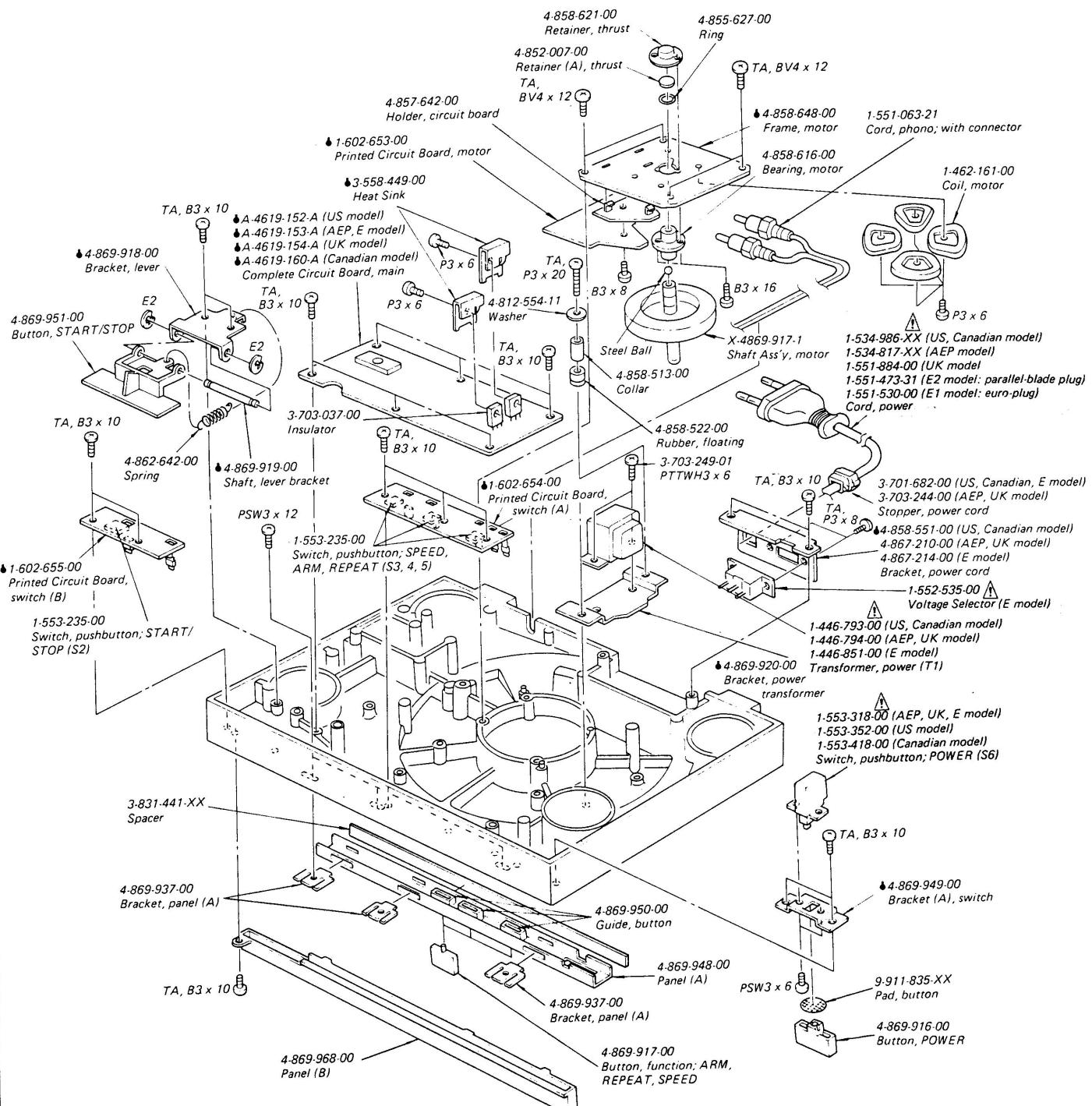
A

B

C

D

(2)



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

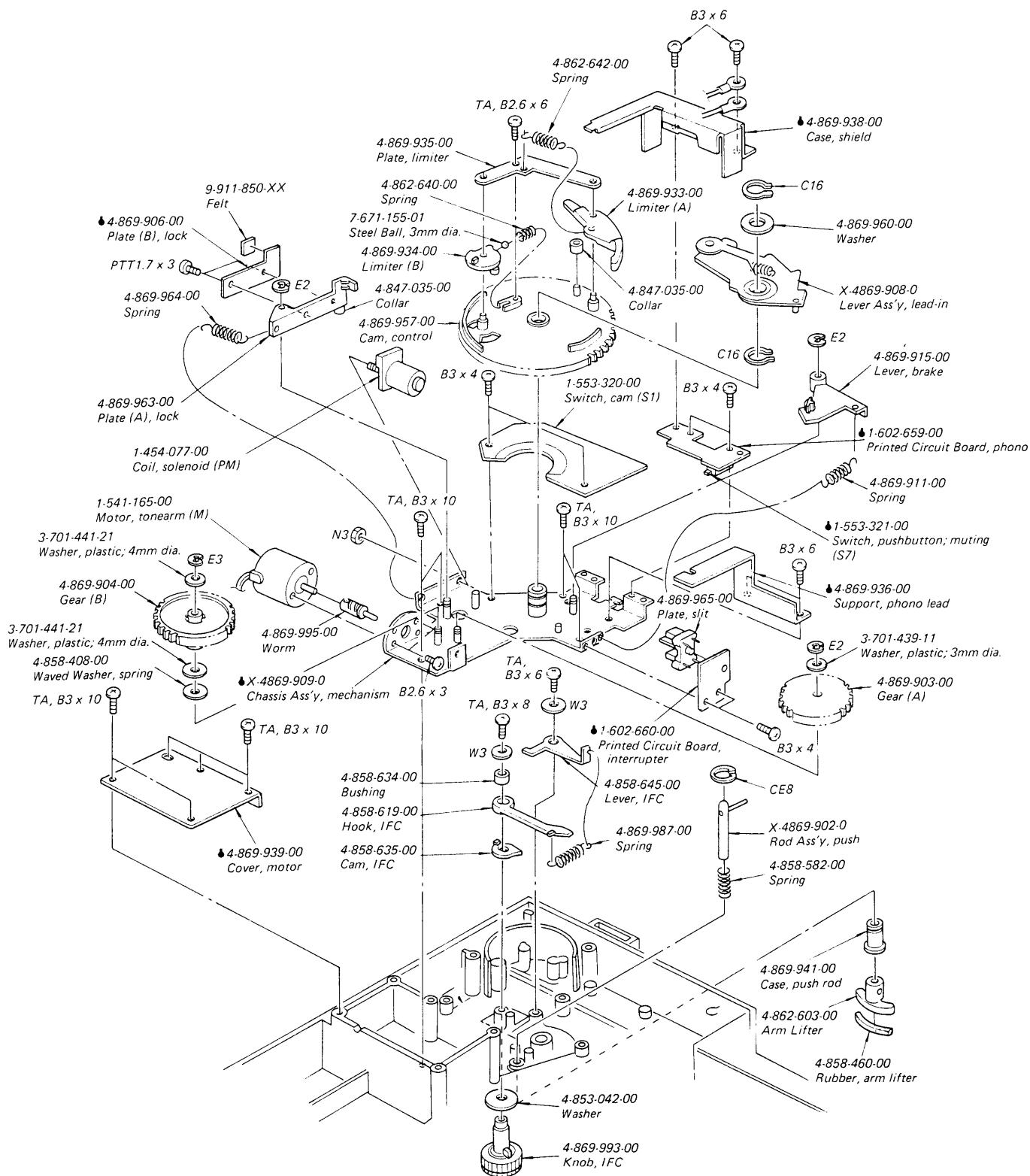
A

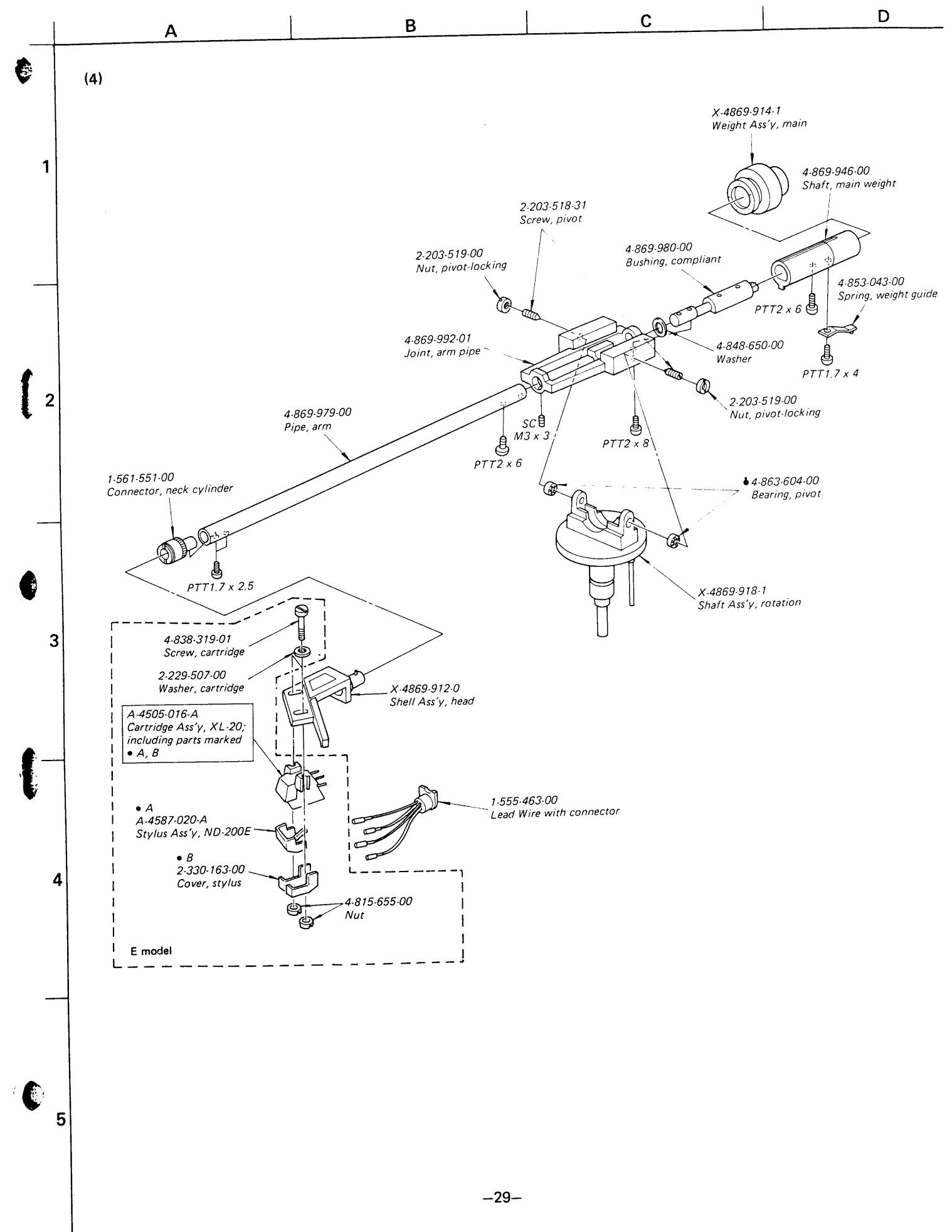
B

C

D

(3)





SECTION 6

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
-----------------	-----------------	--------------------

SEMICONDUCTORS

Transistors

Q101, 102	8-729-141-43	2SD414
Q103	8-729-154-83	2SB548
⇒ Q104	8-729-612-77	2SA1027R
⇒ Q201-203	8-729-663-47	2SC1364
⇒ Q204	8-729-612-77	2SA1027R
Q301	8-729-141-43	2SD414
Q302	8-729-154-83	2SB548
Q303	8-729-141-43	2SD414
Q304	8-729-154-83	2SB548
⇒ Q401, 402	8-729-612-77	2SA1027R
⇒ Q403-410	8-729-663-47	2SC1364
⇒ Q411	8-760-413-10	2SC1475
⇒ Q412	8-729-663-47	2SC1364
⇒ Q413	8-729-413-10	2SC1475
Q414	8-729-141-43	2SD414
Q415	8-729-154-83	2SB548
Q701, 702	8-729-101-01	PH101
Q801	8-729-101-13	PH103

ICs

IC201	8-751-930-00	CX193
IC202	8-759-145-57	μPC4557C
IC301	8-759-145-58	μPC4558C
IC401	8-759-154-35	μPD554C035
⇒ IC402	8-759-140-49	μPD4049C
IC403	8-759-145-58	μPC4558C

Diodes

D101-104	8-719-200-02	10E2
⇒ D105	8-719-930-12	EQB01-12Z
⇒ D106	8-719-931-06	EQB01-06
⇒ D201	8-719-931-06	EQB01-06
⇒ D403, 404	8-719-815-55	1S1555
D405	8-719-200-02	10E2
⇒ D406	8-719-815-55	1S1555
D501-504	8-719-311-20	SEL1120R

⇒ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
-----------------	-----------------	--------------------

D505	8-719-313-20	SEL1320G
D601, 602	8-719-311-20	SEL1120R
D801	8-719-101-11	SR110

H1, H2	8-719-905-07	SGF-MS-07F
--------	--------------	------------

CAPACITORS

Common capacitors are omitted. Refer to the lists on pages 32 and 33 for their part numbers.

C101	 A1-161-744-00	0.01μF	400V	ceramic (AEP, E model)
	 A1-130-230-00	0.01μF	300V	film (UK model)
	 A1-130-233-00	0.033μF	125V	film (US model)
	 A1-130-098-00	0.022μF	125V	film (Canadian model)
C102-105	 A1-123-498-00	1000μF	25V	electrolytic
C210	1-102-491-00	51pF	50V	ceramic

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted. Refer to the list on page 34 for their part numbers.

R101, 102	 A1-217-397-00	68	1/4W	fusible
R103	 A1-217-393-00	33	1/4W	fusible
R104	1-244-881-00	2.2k	1/2W	carbon
R105	1-244-873-00	1k	1/2W	carbon
R106	1-213-130-00	82	1/2W	carbon
R433	1-244-825-00	10	1/2W	carbon
R439	1-244-853-00	150	1/2W	carbon
R440	1-244-841-00	47	1/2W	carbon
R445, 446	 A1-217-397-00	68	1/4W	fusible

RV201	1-226-433-00	50k-B, adjustable; 33rpm		
		US model: serial No. up to 801,000	AEP model: serial No. up to 501,100	UK model: serial No. up to 601,000
	1-226-759-00	50k-B, adjustable; 33rpm	US model: serial No. 801,001 and later	AEP model: serial No. 501,101 and later
		UK model: serial No. 601,001 and later	Canadian, E model	

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
RV202	1-226-434-00	100k-B, adjustable; 45rpm (US model: serial No. up to 801,000) (AEP model: serial No. up to 501,100) (UK model: serial No. up to 601,000)
	1-226-938-00	100k-B, adjustable; 45prm (US model: serial No. 801,001 and later) (AEP model: serial No. 501,101 and later) (UK model: serial No. 601,001 and later) Canadian, E model
RV301, 302	1-226-235-00	5k-B, adjustable; gain
RV303, 304	1-226-239-00	100k-B, adjustable; offset
MISCELLANEOUS		
HMG	1-543-123-00	Head, speed-detecting
L401	1-408-096-00	Coil, 470 μ H; microinductor
M	1-541-165-00	Motor, tonearm
PL	1-518-305-00	Lamp
PM	1-454-077-00	Coil, solenoid
S1	1-553-320-00	Switch, cam
S2	1-553-235-00	Switch, pushbutton; START/STOP
S3	1-553-235-00	Switch, pushbutton; SPEED
S4	1-553-235-00	Switch, pushbutton; ARM
S5	1-553-235-00	Switch, pushbutton; REPEAT
S6	△1-553-318-00	Switch, pushbutton; POWER (AEP, UK, E model)
	△1-553-352-00	Switch, pushbutton; POWER (US model)
	△1-553-418-00	Switch, pushbutton; POWER (Canadian model)
S7	1-553-321-00	Switch, pushbutton; muting
T1	△1-446-793-00	Transformer, power (US, Canadian model)
	△1-446-794-00	Transformer, power (AEP, UK model)
	△1-446-851-00	Transformer, power (E model)
X201	1-527-380-00	Crystal, OSC
	1-462-161-00	Coil, motor
	△1-534-817-XX	Cord, power (AEP model)
	△1-534-986-XX	Cord, power (US, Canadian model)
	1-551-063-21	Cord, phono; with connector
	△1-551-473-31	Cord, power; parallel-blade plug (E2 model)
	△1-551-530-00	Cord, power; euro-plug (E1 model)
	△1-551-884-00	Cord, power (UK model)
	△1-552-535-00	Voltage Selector (E model)
	1-555-463-00	Lead Wire with connector
	1-561-551-XX	Connector, neck cylinder

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
COMPLETE CIRCUIT BOARDS		
	● A-4619-152-A	Main (US model)
	● A-4619-153-A	Main (AEP, E model)
	● A-4619-154-A	Main (UK model)
	● A-4619-160-A	Main (Canadian model)
PRINTED CIRCUIT BOARDS		
	● 1-602-653-00	Motor
	● 1-602-654-00	Switch (A)
	● 1-602-655-00	Switch (B)
	● 1-602-656-00	Size (B)
	● 1-602-657-00	Size (A)
	● 1-602-658-00	Lamp
	● 1-602-659-00	Phono
	● 1-602-660-00	Interrupter
ACCESSORIES AND PACKING MATERIALS		
<u>Part No.</u>	<u>Description</u>	
X-4869-912-0	Shell Ass'y, head	
X-4869-915-0	Screw Ass'y, cartridge	
3-701-634-00	Bag, plastic; for turntable	
3-701-630-00	Bag, plastic; for instruction manual	
3-701-616-00	Bag, plastic; for head shell	
3-701-806-00	Adaptor, 45rpm	
3-783-188-11	Manual, instruction (AEP, UK, E model)	
3-783-188-21	Manual, instruction (US model)	
3-783-188-21	Manual, instruction (Canadian model)	
3-794-902-31		
4-847-314-00	Bag, protection; for set	
4-848-002-00	Cushion, arm pipe	
4-862-043-00	Cushion, tonearm	
4-862-680-00	Protector	
4-869-959-00	Plate, light interception	
4-869-962-00	Adjuster, drop-point	
4-869-974-00	Carton, for accessories	
4-869-975-00	Cushion, right	
4-869-976-00	Cushion, left	
4-869-977-00	Case, accessories	
4-869-981-00	Sub-weight	
4-869-996-00	Carton	
4-870-529-00	Case, head shell (US, AEP, UK model)	

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING				→ : Use the high voltage rated one.	
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.				
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	—	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	—
3300	1-121-661-00	1-123-075-00	1-123-071-00	—	—	—

CAP. (μF)	100 VOLT.		160 VOLT.		250 VOLT.		350 VOLT.	
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—	—	—	—	—
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00	—	—	—	—
2.2	1-123-250-00	1-123-026-00	—	1-123-028-00	—	—	—	—
3.3	1-121-995-00	—	1-123-004-00	1-123-006-00	—	—	—	—
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00	—	—	—	—
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00	—	—	—	—
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00	—	—	—	—
33	1-121-997-00	1-121-757-00	—	—	—	—	—	—
47	1-123-251-00	1-121-919-00	—	—	—	—	—	—
100	1-123-084-00	—	—	—	—	—	—	—

CERAMIC CAPACITORS

CAP. (pF)	RATING				CAP. (μF)	50 VOLT.	PART No.
	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)			
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00	—	—
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00	—	—
16	1-102-952-00	110	1-102-815-00	—	—	—	—
18	1-102-953-00	120	1-102-816-00	—	—	—	—
20	1-102-958-00	130	1-101-081-00	—	—	—	—

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

CAP. (μF)	RATING				CAP. (μF)	50 VOLT.	PART No.
	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.			
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00	—	—
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00	—	—
0.0015	→	1-161-041-00	0.027	1-161-018-00	1-161-056-00	—	—
0.0018	→	1-161-042-00	0.033	1-161-019-00	1-161-057-00	—	—
0.0022	→	1-161-043-00	0.039	1-161-010-00	1-161-058-00	—	—
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00	—	—
0.0033	→	1-161-045-00	0.056	→	1-161-060-00	—	—
0.0039	→	1-161-046-00	0.068	→	1-161-061-00	—	—
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00	—	—
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00	—	—
0.0068	→	1-161-049-00	—	—	—	—	—
0.0082	1-161-012-00	1-161-050-00	—	—	—	—	—
0.01	1-161-013-00	1-161-051-00	—	—	—	—	—
0.012	→	1-161-052-00	—	—	—	—	—
0.015	1-161-015-00	1-161-053-00	—	—	—	—	—

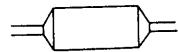
MYLAR CAPACITORS

CAP. (μF)	RATING			CAP. (μF)	RATING			CAP. (μF)	RATING		
	50 VOLT.	100 VOLT.	200 VOLT.		50 VOLT.	100 VOLT.	200 VOLT.		50 VOLT.	100 VOLT.	200 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00	—	—	—	—
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	—	—	—	—
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	—	—	—	—



TANTALUM CAPACITORS

CAP. (μF)	RATING							→ Use the high voltage rated one.	
	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.	PART No.	
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	
0.01	—	—	—	—	—	→	—	—	1-131-396-00
0.015	—	—	—	—	—	→	—	—	1-131-397-00
0.022	—	—	—	—	—	→	—	—	1-131-398-00
0.033	—	—	—	—	—	→	—	—	1-131-399-00
0.047	—	—	—	—	—	→	—	—	1-131-400-00
0.068	—	—	—	—	—	→	—	—	1-131-401-00
0.1	—	—	—	—	—	→	—	—	1-131-402-00
0.15	—	—	—	—	—	→	—	—	1-131-403-00
0.22	—	—	—	—	—	→	—	—	1-131-404-00
0.33	—	—	—	—	—	→	1-131-409-00	—	1-131-405-00
0.47	—	—	—	—	—	1-131-412-00	—	—	1-131-406-00
0.68	—	—	—	—	—	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	—	—	—	—	—	1-131-413-00	—	—	1-131-408-00
1.5	—	1-131-421-00	—	—	—	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	—	1-131-419-00	—	—	1-131-414-00	—	1-131-355-00	1-131-349-00
3.3	—	—	1-131-422-00	—	—	1-131-417-00	—	1-131-362-00	1-131-350-00
4.7	1-131-425-00	—	—	1-131-420-00	—	1-131-369-00	—	1-131-363-00	1-131-357-00
6.8	—	1-131-423-00	—	1-131-376-00	—	1-131-370-00	—	1-131-364-00	1-131-358-00
10	1-131-426-00	1-131-383-00	—	1-131-377-00	—	1-131-371-00	—	1-131-365-00	1-131-359-00
15	1-131-390-00	1-131-384-00	—	1-131-378-00	—	1-131-372-00	—	1-131-366-00	1-131-360-00
22	1-131-391-00	1-131-385-00	—	1-131-379-00	—	1-131-373-00	—	1-131-367-00	—
33	1-131-392-00	1-131-386-00	—	1-131-380-00	—	1-131-374-00	—	—	—
47	1-131-393-00	1-131-387-00	—	1-131-381-00	—	—	—	—	—
68	1-131-394-00	1-131-388-00	—	—	—	—	—	—	—
100	1-131-395-00	—	—	—	—	—	—	—	—



TANTALUM CAPACITORS

CAP. (μF)	RATING							PART No.
	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.	PART No.	
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033	—	—	—	—	—	—	—	1-131-273-00
0.047	—	—	—	—	—	—	—	1-131-274-00
0.068	—	—	—	—	—	—	—	1-131-275-00
0.1	—	—	—	—	—	—	—	1-131-276-00
0.15	—	—	—	—	—	—	—	1-131-277-00
0.22	—	—	—	—	—	—	—	1-131-263-00
0.33	—	—	—	1-131-169-00	—	—	—	1-131-264-00
0.47	—	—	—	—	1-131-258-00	—	—	1-131-265-00
0.68	—	—	1-131-254-00	—	—	—	—	1-131-266-00
1.0	—	1-131-250-00	—	—	—	—	—	1-131-267-00
1.5	—	—	—	—	1-131-259-00	—	—	1-131-268-00
2.2	—	—	—	1-131-255-00	—	—	—	1-131-269-00
3.3	—	1-131-251-00	—	1-131-171-00	—	—	—	1-131-270-00
4.7	—	—	—	—	1-131-260-00	—	1-131-271-00	—
6.8	—	—	—	—	—	—	—	—
10	—	—	1-131-256-00	—	—	—	—	1-131-272-00
15	—	—	1-131-252-00	—	1-131-261-00	—	—	—
22	—	—	—	1-131-257-00	—	—	—	—
33	1-131-176-00	—	1-131-253-00	—	—	—	—	—
47	1-131-288-00	—	1-131-174-00	—	—	—	—	—
100	1-131-177-00	—	—	—	—	—	—	—

1/4 WATT CARBON RESISTORS

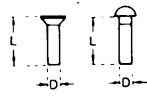
Ω	Part No.										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

HARDWARE NOMENCLATURE

Screw:

— P 3 x 10

L: Length in mm
 D: Diameter in mm
 Type of head



Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft
 Reference designation

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

© 1980

—34—

9-958-792-12

80F04111-1
Printed in Japan